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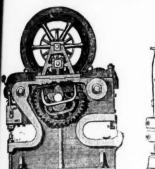
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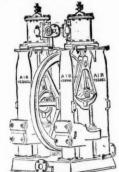
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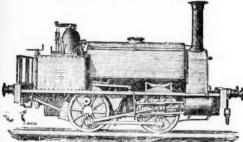
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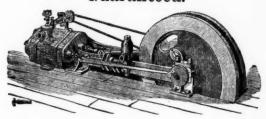
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Mr. BAINBRIDGE, C.E., of the London Company's Mines, Middleton-Teesdale, by Darlington, writing on the 20th March, 1876, says—"The yearly roft on our Nanthead waste heaps amounted last year to £600, tesides the ma-inery being occupied for some months in dressing ore-stuff from the mines. Of the company chinery being occupied for some months in dressing ore-stuff from the mines. Of course, if it had been wholly engaged in dressing wastes our returns would have been greater; but it is giving us every satisfaction, and bringing the waste heaps into profitable use, which would otherwise remain dormant."

into profitable use, which would otherwise remain dormant."

Mr. T. B. Stewart, Manager of the Duke of Buccleuch's Mines, Wanlockhead, Abington, N.B., writing on 20th March, 1876, says-"I have much pleasure in stating that a full and superior set of your Ore Dressing Machinery has been at work at these mines for fully a month, and each day as the moving parts become smoother, and those in charge understand the working of the machinery better, it gives increasing satisfaction, the ore being dressed more quickly, cheaply, and satisfactorily than by any other method."

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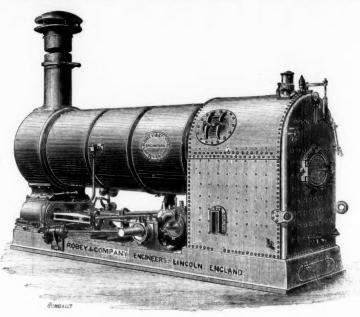
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Original Correspondence.

COAL.

ing trade and the labourers at our ports are proportionately benefited. British India is a large customer, where they cannot use much for fuel; the value was 172,721\(\ell\), about 20,000\(\ell\). less than last year. In Egypt they do not often want to warm themselves, for the Egyptian may quote the Song of Solomon, and say "The sun looked upon me, and I am black," but we sent to that bright land to the value of 154,000. The values have been declining from year to year, but the quantity is greater this year than last. Spain and her colonies have also been customers to the extent of 830,748%. In this case values have declined, but quantities gradually and steadily advanced.

this case values have declined, but quantities gradually and steadily advanced.

The largest coal trade, next to that with France, is with Germany, our exports to which for the half-year being considerably over half a million, a trifle less than last year, and a quarter of a million less than in 1874, but the tonnage has augmented: over a million tons were sent to Germany this year up to June 30. Our trade with Russia is also an augmenting one. The value this year was 295,3764, against nearly 120,0004, less last year. The year before the value exceeded \$53,0004, but in quantities we sent 150,000 tons more this year. The destination was mainly to Odessa and St. Petersbourg. It is thought by many persons that this trade with Russia will go on increasing, because of the heavy duties upon the products of foreign forges and furnaces, and the foresta in the iron discricts of the empire are nearly exhausted. All the iron made there, and the manufacture is extensive, has always been made with charcoal; it is, therefore, supposed that coal must be imported. But in those iron districts beneath the feet of the miners, and under those worn down woods, coal is in abundance. Hitherto all efforts to create an enterprise for coal mining in Russia have failed, but new conditions may subdue this apathy, and the Muscovites at last have to work their own vast coal fields. Iron has been called the backbone of the world, and providentially wherever it is coal is conerally present without which it could not wherever it is coal is generally present, without which it could not be made available for the wants of mankind when forests disappear before the axe of civilisation. It is curious that we have a countermant near the present of the before the axe of civilisation. It is curious that we have a counterpart near home—or perhaps we may call it at home—to the behaviour of the Russians as to iron and coal. Ireland abounds in both. Her iron is not so deep nor the deposit so thick as in Great Britain, but it is of excellent quality, especially for making steel. In the reign of Queen Elizabeth Ireland possessed a great number of furnaces, and as the island was over large areas covered with forests the iron was manufactured, as in Russia now, with charcoal. As those forests furnished a retreat for the "raparees" and insurgents of every level them, and although the coal was there, the furnaces were allowed to die out, the people being ignorant of the supplies of coal sthand, or, like the subjects of the Czar, prejudiced against its use. The last of our customers which we shall notice are the Scandian States, so that some cold countries as well as hot take our fuel, Sweden and Norway took 265,122., a large diminution from last year, and very much larger than the year before. Denmark took

the worth of 170,000*l*., showing a rapid decline in the value of this import, but a slight advance in quantities. It was said some time ago that it would not pay any of the Baltic States to bring timber from the interior to the sea-board at the prices which ruled, and that in those countries wood must be used for the purposes for which English coal is now employed. The report itself was groundless, for we have imported timber from the Baltic countries in largely interesting replace. less, for we have imported timber from the Battic countries in largely increasing values. Like many other "trade reports," this was a fiction, the exports of the Scandinavian kingdoms to this country are growing, and they are likely to want our coal for their shipping and furnaces. As far as we are able to determine the prospects of our coal mines (using the phrase in its largest application) are encouraging. It will probably be a long time before "coal famine prices" will be again obtainable, but we may reasonably look for a fair demand at rates remunerative to the coal miner.

THE WELSH STATE TRADE.

(p. 724), stated his inability to furnish the present prices of the several descriptions of slate named in his list as being the most in demand, I append a supplemental list, showing the prices at six periods, ranging from 1862 to the present time.

I may state that 1862 prices are taken from the Penrhyn Quarry List, whilst all the others are extracted from lists of other quarries, issued in accordance with resolutions of the Carnarvon Slate Club.

There has been the largest progressive rise in the prices of slates during the last three years, and, as your correspondent asserts, it is difficult to foresee any diminution in the present demand (as the slate-producing areas are practically limited in extent), or that any satisfactory substitute is likely to be brought into competition which shall combine lightness and durability with the inexpensiveness of the Welsh roofing slate.

It is therefore a matter of surprise that the investing public

It is, therefore, a matter of surprise that the investing public should stand aloof, and, to a great extent, ignore Welsh slate quarries, which, when well selected, are not speculative undertakings, but rank amongst the first of the safe and permanent, as well as highly remunerative, investments of the day, returning profits varying from 30 to 50 per cent, annually.

It was stated in the "Carnaryon and Denbigh Herald" of April last that "perhaps nothing so well indicated the flourishing condi-

last that "perhaps nothing so well indicated the flourishing condition of the slate trade as the simple but astonishing fact that very recently two 50t, shares in a certain quarry were sold, the one for 700t, and the other for 1100t.

Thos. Sykes.

Harrogate, July 26.

THE MINING COMPANY "NEDERLAND"-THE CARIBOU.

SIR.—In the Supplement to the Journal of July 1 I remarked, on p. 728, an article called "Why Investments by Foreign Corporations in American Mines Fail to Become Profitable." In the said article a history was given of the productiveness and management of the Caribou Mine and Mill, and it was also mentioned that this mine is in the hands of the law. In continuation to that report I am able to state that this famous mine, which became the property of the Mining Company "Nederland" for \$3,000,000, will shortly be offered for sale at public auction at some place in Colorado. I hope you will have no objection to make this also known through your columns, it being possible that investors in mining enterprises might will have no objection to make this also known through your columns, it being possible that investors in mining enterprises might deem it advisable to form some scheme for becoming the new proprietors of this mine, with its fine mill and further appurtenances, which will certainly be sold at a very low figure. I shall also feel obliged if you will add that, according to latest advices, the mine is now paying, although it is being worked in a very imperfect manner. If the sale does not take place unexpectedly the exact day of the auction will be advertised in the Mining Journal.

The Hanne, July 25.

SHAREHOLDER.

The Hague, July 25.

P.S.—I have addressed you these lines in my quality of share-holder, and one of the most interested persons in the Mining Com-" Nederland."

PACIFIC COAST MINING NOTES.

SIR,—Having noticed in the Journal of June 3, above the convenient, but in most cases mythical, signature of "Shareholder," some inappropriate, because not substantiated, strictures bearing upon a previously published letter of mine, in relation to the character of the management of the Richmond in this country, I purpose drawing upon your space to a moderate extent while I answer "Shareholder," to whose consideration I this time present some new Shareholder," to whose consideration I this time present sor acts worthy to be remembered regarding his much-abused friend

It is not my purpose to institute a controversial tilt with the gen-It is not my purpose to institute a controversial tit with the gentleman who reposes behind the nom de plume of "Shareholder" relative to the merits or demerits of the gentleman whom he defends. To the latter I bear no ill-will; I am not even now, nor have I ever been, influenced when writing of his acts as manager of a great property and representative of a powerful corporation, by other feelings than what should actuate the correspondent of a widely-read journal—the fearless utterance of the truth. It has been somewhere and that this should not always be speken lest someholds suffering lings than what should actuate the correspondent of a widely-read journal—the fearless utterance of the truth. It has been somewhere said that this should not always be spoken lest somebody suffer in feeling, pocket, or reputation by its promulgation. Whoever he who gave expression to such rank hereay, it is safe to say that his training in the domain of moral ethics did not involve a great deal of mental toil. The truth, it is true, is not at all times a very relishable morsel to those who render themselves amenable to either public or private censure. Acts of omission may be forgiven, but acts of commission, when perpetrated knowingly and with special intent and purpose in view, can hardly be said to be in the catagory of those transgressions claiming either our indulgence or forgetfulness. When I arraigned Mr. Probert before the Richmond directors and shareholders in November, 1874, I did so fearlessly, and above no fletitious signature. And looking back through the vista of 18 months to that time, in view of the knowledge of facts in my possession, I cannot recal a single charge or word then written that I would now care to have obliterated from the page whereon they are printed. "Shareholder" says, blinkingly, that I committed an anachronism in assigning the date of Mr. Probert's return from England to this coast to June, 1875, instead of to the same month of the previous year. If I did commit so grave a chronological error I humbly beg the gentleman's pardon, and in mitigation urge that it was an inadvantage of the properties of the property of the p the gentleman's pardon, and in mitigation urge that it was an inadvertency on my part if so written. I now, however, incline to the belief that to a typographical error I am indebted for being thus belief that to a typographical error I am indebted for being thus charged with curtailing Mr. Probert's official career. I could not have been knowingly guilty of so great a mistake, for June, 1874, is indelibly impressed upon my memory, and that for good and sufficient reasons, too. In the fulness of my generosity I willingly absolved Mr. Probert from intentional wrong doing, and gave him credit for "honesty of purpose," while holding up to view his want of judgment and lack of practical acquaintance with varied and extensive mining overstions. He corriging did not exhibit to any

wrong I ask to be corrected. Mr. McGee was not ambitious of wastwrong I ask to be corrected. Mr. McGee was not ambitious of wasting the company's money in useless and profitless experimental tests. His forte was work and economy. He knew what a man was capable of doing either underground or aboveground, and being a practical man himself, he was eminently just to the employees under him. He coerced no one into boarding at the company's boarding-house, and he knew how to speak to a miner or labourer if in reproof without hurting their feelings. Can Mr. Probert say as much? I say he cannot, for I know whereof I speak. Is it to be supposed that people bother themselves writing about Mr. Probert merely for the fun of the thing? No! Nor do people pen such sentences as those given below without good reason for so doing. Mr. Probert may adorn the pulpit, but it can hardly be said that he adorns the position of resident director:—

MORE PETTY TYBANNY.

MORE PETTY TYRANNY.

MORE PETTY TYRANNY.

SIB,—The conduct of Mr. Probert in attempting to tyrannise over the employees of the Richmond Company is reprehensible in the extreme. Arbitrary and tyrannical he has been from the first. No sooner is he defeated at one point than with s tanic equanimity he invents some new plan by which he can vex, torment, and tyrannical over the employees. He has not forgotten the refusal of the employees to accept his trade dollar at par, and with all the venom and energy of which he is capable he, by his arbitrary mandates, is attempting to reduce them—the employees of the Richmond Company—to the abject condition of slaves. His last act was to officially notify to the men at the mine that such as had no families must board at the boarding house kept by Mr. Gillespie, and those who object to so doing are requested to call at the office and get their time. The next that we expect is that King Probert will issue orders that the Richmond employees must all patronise some certain store, and take their drink at some particular saloon which would be equally just and defensible with the foregoing. For innate cussedness King Probert is consumed to a fixed the result of King Probert is arrogating to himself rights and privileges not consistent with our republican ideas of right and justice. Let him beware. "Whom the Gods would destroy they first make mad."—Ruby Hill, Janc 24.

The following are the comments of the Editor of the "Sentinel" on the above, or on the cause that led to its being written:—

The following are the comments of the Editor of the "Sentinel" on the above, or on the cause that led to its being written:—
"As we learn from other sources, the facts in the case are these. The company owns the boarding house, which is leased to the present occupant at \$60 per month. In order that the venture may prove a success, thus ensuring the permanent occupancy of the building, Mr. Probert seems to have determined to use his position to compel the men to sustain the enterprise, even though it may redound to their detriment financially. Hitherto many of the men had combined themselves with the view of saving every dollar possible of their hard earnings. Some of this class have families elsewhere dependent upon them for support, and for the education of their children likewise. In all such cases the mandate of Mr. Probert cannot but be productive of great hardship. There is considerable feeling among the miners on this subject, and we much fear that the action of the resident director will result in no good to the company. A great corporation like the Riehmond cannot well afford to descend to petry business of this character. It is proper to state in this connection that Foreman Potts had no hand in this matter further than to enforce the order of his superior officer.—Entrons of "Sentimel."

The foregoing letter and the Editorial remarks thereon are preg-

The foregoing letter and the Editorial remarks thereon are pregnant with interest at the present juncture. They afford, at all events to the readers of the Journal, a forcible, if not a worthy, illustration of how things are conducted at the Richmond Mine. They also of how things are conducted at the Richmond Mine. They also give an admirable glimpse to outsiders of the amount of executive wisdom and ability possessed by the gentleman who directs, or rather misdirects, the affairs of the Richmond on this Continent.

To a high-minded man, such as a resident director of an opulent English co-operation should be, the bare thought even of harbouring, much less putting in practice anything so objectionable as is pourtraved in the above, would be sufficient to awaken in his own breast a trayed in the above, would be sufficient to awaken in his own breast a full sense of the injury, the injustice, and tyranny which such an order would inflict upon the hardworked men placed under his control. How sad a commentary does this and other acts of folly on the part of the manager, previously made public in the columns of the Journal, exhibit of the want of judgment, not to say discretion, which has from the first characterised his every movement relative to his duties. The same reakless days have core relief by heaveth him of from the first characterised his every movement relative to his duties. The same reckless devil-may-care policy brought him, of all the other superintendents then at the Eureka, in the summer of 1874, soon after his return from England, into immediate personal conflict with the charcoal men of the former place. His unreasonably coercing demands upon the industry of those men at that period has ever since resulted to his company's detriment, a fact which is well understood on this Coast. The coal men were like Mr. Probert himself endowed with human feelings and human passions, and it is not to be wondered at that they availed themselves of every oppornot to be wondered at that they availed themselves of every oppor-tunity to be revenged. They often accomplished it too, even to their own as well as to the company's loss. Their antagonism to that genown as well as to the company's loss. Their antagonism to that gentlemen prompted them to such a course. It was no unfrequent occurrence for them to withhold from the company, at seasons when coal was known to be scarce, the necessary supplies, they preferring to favour the other companies operating at Eureka, even though by so doing they sustained a loss of from a half to one cent per bushel by the transaction. This, if anything could, should have awakened Mr. Probert from his dream of fancied security, and besides it should have clearly proved to him, were his perceptive faculties in a healthy condition, the feeling with which he was held by said coal men. The company itself was always popular at Eureka, as witnessed by the sympathetic feeling evinced in its behalf by the inhabitants of that burg at the time of the great judicial struggle for the possession of the Look Out Mine in 1873, by itself and the Eureka Consolidated.—San Francisco, July 6.

J. D. Power.

BLAKELEY HALL COLLIERY COMPANY.

BLAKELEY HALL COLLIERY COMPANY.

SIR,—In the case of the Wedgewood Coal and Iron Company, reported in the Times of July 17, Messrs, Anderson and Innes were ordered by the Vice-Chancellor Malins to pay up their shares held in the above company. It appears the nominal capital of the company was stated to be 200,000/; its real capital was 60,0000/, issued as debenture bonds. The Blakeley Hall Company was floated in exactly the same manner—one of the directors, Mr. H. T. Sankey, being also a director of the Wedgwood Coal Company. The nominal capital of the Blakeley Hall Company was 220,000/., its real capital 100,000/., issued as debenture bonds, not a farthing having been paid upon the shares. After the decision of the Vice-Chancellor in the above case, the trustees for the bondholders in the Blakeley Hall Company have but one course to pursue—to call upon the shareholders to pay up their shares.

A BONDHOLDER. holders to pay up their shares. A BONDHOLDER.

MINING IN BREAGE.

-In my last letter (in the Supplement to the Journal of Sir.—In my last letter (in the Supplement to the Journal of July 15) I mentioned only a part of the mines in Breage. There are several more, but most of them—nearly all—are abandoned. Near Prah sands a mine called Sidney Godolphin was worked under the management of Capt. Josh. Vivian, who is so well known as a superior miner. A steam-engine was erected there in 1851 or 1852, and the engine-shaft and other shafts sunk, but it was not worked long enough to yield profits. Whether a more extended trial would have been successful it is impossible to divine. The sett is large, and contains numerous lodes.

and contains numerous lodes.

Adjoining Sidney Godolphin, at the east, is another mine, called Leeds and St. Aubyn, partly, I think, in Germoe, which was worked at the same time, but 15 years longer, for it has only latterly (a year or so ago) been abandoned. The works are near Germoe village, At times the returns of tin met the costs, but it was self-sustaining

only during high tin prices. At first Capt. J. Vivian managed this mine, but lastly, and for many years, it was managed by Capt. Curtis, the mineral agent of one of the lords.

There is a mine in the estate of Kenneggy called St. Aubyn and Grylls, which was one of the 16 (?) contemporary mines managed by Capt. T. Richards, of Redruth, who is regarded as a very intelligent miner, but, like many other intelligent men, unfortunate in his speculations. The produce was tin and copper, but not enough to pay. It has been idle many years. There is a mine close to the English Channel, and near the last mentioned, called Kenneggy Mine, but long since idle.

but long since idle.

Wheal Wellington, partly in Breage and partly in St. Hilary, was worked many years, but abandoned also with a loss. Trewavas, close by the English Channel, and worked under it, was a profitable copper mine for several years, but was abandoned—as a losing concern—about 20 or 25 years ago. Some persons say that it should be re-worked, and fruitless attempts have been made in that direction. The late Capt. Michael Martyn was manager.

South Wheal Fortune is a little mine near the eastern boundary of this parish, adjoining Sithney parish, and near Rosladden mills.

It was worked under the late Capt. M. Martyn's management about

It was worked under the late Capt. M. Martyn's mana gement about two or three years, having a steam-engine pumping, but the returns were very small—lead, I believe. North Wheal Vor is situate in Penhale and Pengwedna estates, a long sett, but always poor; idle many years, but I think that the engine (rotary) is still mistu.

Wheal Cruett was worked slightly by the late Mr. Wallis, of Trevarnoe, in 1823, afterwards under the name of Wheal Wallis, in 1849, &c., by a company formed by the late Mr. F. Bottrall, of Camborne. It was, like the rest, abandoned with a loss of a few thousands. When Mr. Wallis worked the mine a singular circumstance occurred. He had ordered timber to be brought to the mine for the construction of a whim. One night some thieves cut the "spanbeam" into two parts and carried them away! The thieves were never identified, and no reward was offered for their discovery. The saw-dust showed that it was cut.

A mine was opened at Pengelly, about the year 1820, to try a lode said to contain blende. A steam-engine was erected, but little more done. I think the mine was called Wheal Buller, after the name of the lord of the land, now Lord Churston.

A little old mine, called East Great Work (previously called Rowas Mine), was worked about 20 years ago for a year or two. A steam-engine was erected, but loss, the ordinary result, so discouraged the company as to lead to abandonment. On the same estate the late Mr. Wallis, at his sole expense, worked a little mine called the Bog Mine. The power employed for drainage was a high water-wheel. It has been idle, I believe, ever since—60 years. A poor thing. Trevena Mine, near Breage village, was worked by Capt, J. Vivian and Co. Idle many years.

The other mines in Breage I reserve for another paper. I believe all the mines are stanniferous except Trewavas and Godolphin, which were cupiferous.—Truro, July 26.

NEW ORE DRESSING INVENTIONS.

NEW ORE DRESSING INVENTIONS.

SIR,—So many strong representations having been made on the above subject by self-opinionated novices and others, whilst some practical agents have been represented as men of but little, if any, knowledge of their profession, my object in writing has been to practical agents have been represented as men of but little, if any, knowledge of their profession, my object in writing has been to ascertain if these beasted discoveries would really bear the test of fair examination. "T. R. T." states that the inventions of certain gentlemen, whose names have been before the public for years past as the regenerators of mining, are not in use at the New Consols. Now, as these were the very inventions which were to revolutionise the present system of mining, and which were to demonstrate the inaptitude of practical men, may I be allowed to ask "T. R. T." how it happens that these inventions have not been adopted in the mine referred to, it being generally understood that one of the principal Magicians was for some considerable time especially engaged there? The statement of "T. R. T." that Dolcoath with the mode of dressing in operation at New Consols would make ten times its usual profit is quite in keeping with most other rhapsodies that are constantly emanating from the immediate neighbourhood of the New Consols.

Observer.

ANOMALIES OF MARKET PRICES AND SECURITIES

StB.—After the crisis that culminated in the crash of May, 1866, a lengthened period of distrust resulted in the accumulation of una lengthened period of distrust restrict in the accumulation of unemployed capital to an extent that rendered industry and enterprise unremunerative, and, consequently, neglected. Then came a period of cheap bread all over Europe, which continued up to the Franco-German war in 1870. Still, during the interval of the panic in 1866 and the close of 1869, the introduction of the submarine telegraph, the opening of the Suez Canal, and the completion of railway communication between the two great oceans, were silently readingting the conditions upon which oversea commerce must thence adjusting the conditions upon which oversea commerce must thence-forth be carried on. The primary cause of the panic of 1866, and the subsequent collapse, was over "trading" and over "contracting," coupled with gigantic "pawning" of railway, shipping, building, coupled with gigantic "pawning" of railway, shipping, building, manufacturing, and almost every other description of constructive enterprises; in fact, it became a question whether "contractors or financiers" were to go to the wall, and but for the firm attitude of the Bank, and the strength of the old school of private bankers and financiers, fierce as the conflict proved, and disastrous as the consequences were in the case of Overend Gurney, Barnet and Co., and Royal Bank of Liverpool, the very fabric of joint-stock banking throughout the whole provinces of England and Scotland would have crumbled to atoms. The period of 1870, when money was abundant, corn cheap, and war certain, enterprise and industry flourished, and especially as regards mining; the high prices of iron stimuand especially as regards mining; the high prices of iron stimulated and re-animated the getters of ore in Scotland, Cleveland, Staffordshire, and elsewhere. A demand for iron necessarily involves a demand for other metals and also minerals, especially coals, and thence arose from the panic of 1866 to the war in 1870 the sequence of movement by which mining attained that prominency which rendered it megualled in gains by any other branch of home inrendered it unequalled in gains by any other branch of home in-

dustry.

The prices of iron were equalled by those of tin, and from all apparent causes the future would prove prosperous and expansive. Dolcoath, Cook's Kitchen, Tincroft, South Crofty, Pheenix, Trumpet, Great Work, Margaret, Providence, St. Ives Consols, Botallack, Owles, and many other Cornish mines were as volatile as air, and apparently as permanent and expansive as the most sanguine adventurers or the most greedy capitalist could desire. Yet all these apparently as permanent and expansive as the most sanguine adverturers or the most greedy capitalist could desire. Yet all these bright anticipations proved to be only visionary delusions. Strikes and combinations between labour and capital struck to the very root of prosperity in the coal and iron trades, and as effect ever follows on cause the decline and collapse in those industries have proved as signal and important as were the advance and gains acquired through their upward movement, while the privations which miners have now to submit to are doubly acute and severe, in consequence of the idleness and voluptousness that were indulged in during their days of prosperity. Again, Cornwall has collapsed as far as tin mining is concerned, through one cause, and that alone—the discovery in of prosperity. Again, Cornwall has collapsed as far as an incompanies concerned, through one cause, and that alone—the discovery in Australia of and exportation of such quantities of the metal that the value of the ore 14 or 20 or 70 per cent. is reduced from 100% to value of the ore 14 or 20 or 70 per cent. is reduced from 100% to 45% per ton. The mines are as productive as ever in Cornwall, yet their depth, cost of drainage, fuel, and labour render them of little commercial importance to the investing public. Copper and lead mining, however, offer great chances of success, and should be much more advocated and encouraged than unhappily is the case. West Tolgus and North Pool, adjoining, are worthy of attention; the first gives regular dividends, and the latter formerly divided 64,000l. on gives regular dividends, and the latter formerly divided 64,0000. on 45001 capital. A cross-cut is being extended on the cross-course at the 25 fm. level, from which we have seen some pretty ore; this indicates the contiguity of the lode, and early probable success. South Crofty and Agar, seven years ago, spiritedly worked would be large dividend mines, while South Caradon continues to pay quarterly dividends in the face of all difficulties, and in defiance of every obstruction. So much for sound management and unity of purpose in the executive. We now pass from 1870 to 1876, and submit for the consideration of your realers the following observations. consideration of your realers the following observations
At this moment, July 1876, the weather is glorious

At this moment, July, 1876, the weather is glorious, and the prospects of an abundant harvest most propitious and hopeful! Just as before, the return of confidence after three years of stagnation in trade and commerce, up to the close of 1869, Nature steps in, and with a bountiful effulgence of sunshine ripening the spread of corn and the crops of food and fodder necessary for man and for animals—

If a five the stands second to no county in England for gains before, the return of confidence after three years of stagnation in trade and commerce, up to the close of 1869, Nature steps in, and the crops of food and fodder necessary for man and for animals—

If a five three years of stagnation in trade and commerce, up to the close of 1869, Nature steps in, and the crops of food and fodder necessary for man and for animals—

If a five three years of stagnation in trade and commerce, up to the close of 1869, Nature steps in, and the crops of food and fodder necessary for man and for animals—

Exchanges in London as public companies. The vast wealth aclife-giving hope and confidence to the tiller of the land, and energy with renewed life to the man of industry and practical enterprise—who, may we ask, can for a moment reflect on Nature's smiles and with renewed fire to the main of moment reflect on Nature's smiles and gifts and be unmindful that man is expected to gain his sustenance from the sweat of his brow and the work of his hands? And if Nature smiles on her products in store, why should not man smile also, while he discerns in the distance the reward of his labour and also, while he discerns in the distance the reward of his labour and application in the arena of industry essential—nay, indisp success in commerce, trade, manufacture, or mining interests of

That confidence has been sorely tried all must admit. The total ex-Anat confidence has occurrent the control of 300,000,000*l.* capital in about one year in foreign loans alone, is equal to fourfold the imperial taxation of the country for one year, and the cessation of 30,000,000*l.* interest by defaulting

states and communities, is equal to 3/. a head for every adult male annually in Great Britain. Colonial securities are the safest of all fully paid-up bonds, with interest of 5,6, and 7 per cent., now open for selection, where a given rate of income is desired rather than a for selection, where a given rate of income is desired rather than a fluctuating though probably an expensive one. Hence Australia, New Zealand, Cape, Natal, Columbia, Canada, Celon, and the Mauritius, are open for selection; and pray can anyone for a moment contend that these colonies, under the fostering care of England, are not preferable to Englishmen than the stocks of Russia, Austria, Italy, Argentine, Chilian, say naught of Egyptian, Turkish, Greek, Guatemala, Honduras, Costa Rica, Peruvian, Spanish, or Venezuela.

The English funds, Consols having touched 96½ per cent., bank stock, Metropolitan Board of Works, City bonds, and East India securities are the best we can possibly select, but the interest is low, and capitalists, with trustees, are the chief proprietors. In industrial pursuits, shipping is inactive and, to say the least, unremunerative.

pursuits, shipping is inactive and, to say the least, unremunerative, Building is extending in every direction around London and in the chief provincial centres, and, even if in cases they prove unremunerative to builders, the money is spent at home—it does not leave. chief provincial centres, and, even if in cases they prove unremunerative to builders, the money is spent at home—it does not leave the country, while labour and enterprise give the nation so many additional houses as accumulative wealth. Waterworks, gas, and insurance companies are as inactive as docks. Canals and railways command the first position of all constructive undertakings, and as they now constitute the highways of England, Ireland, and Scotland they must prove for years expansive, for locomotion of every description is indissolubly allied therewith. In other commercial pursuits joint-stock banks and discount companies take the lead as market securities, yet we fail to discover the security, for if joint-stock banks do not possess the seeds of dissolution we never yet could read a day of the future. A "stern chase is a long one," but the goal is won by the fleetest vessel and the ablest pilot. We should like to see the class of pilots, or rather "experts," who can secure the six metropolitan joint-stock banks from the shoals, banks, should like to see the class of pilots, or rather "experts," who can secure the six metropolitan joint-stock banks from the shoals, banks, and quicksands identified with the administration of 150,000,000% of cash in an ever varying commercial, trading, manufacturing, and mining atmosphere. mining atmosphere.

That we shall have a bountiful and prosperous harvest every authority believes—that the new moon was ushered in with a few puffs of wind, accompanied by lightning and rain, is not at all surprising nor disheartening; but, on the contrary, they have proved refreshing and invigorating to the crops, as well as healthful to the community. The difference between a good and bad harvest is immense in savings to the nation, if 60,000,0002 annually be a fair average; ten to fifteen, less or more, is just equal in the extreme to about the absorption of the large amount of bullion now accumulated in the vaults of the Bank; and next to agriculture in importance is that of mining, which not only benefit the miner, but the manufacturer, machinist, steam shipping, railway locomotion, and every other department of commerce and industry throughout the length and breadth of the land. All our domestic associations are associated with coals, and our culinary utensils, articles, and paraphernalia with iron tin, copper, and zinc—hence without mining industry one-half of the community would be without employment, and the whole destitute

of social comforts.

Great attention is directed to New Consols, and deservedly so. Capt. R. Pryor states as a fact that the machinery and apparatus now at his disposal will give 1000l. gains monthly, and without further outlay, should he be allowed to proceed unfettered by directors and professors. Surely he asks nothing but what is fair and in justice to himself and son, who have devoted their time and intellects to the study of chemistry, and almost solely for the advantage of this company, and they now demand an opportunity to establish their reports and reputations. We heartily wish them success, for that would be the salvation of the county. There are many mines is that district which the highest enthopities regard favourably if that would be the salvation or the county. There are many mines in that district which the highest authorities regard favourably if the ores be treated chemically; and pray, may we ask, why should the old school of miners deter the progress of science, the arts, and of chemistry, and thus intercept the progress of younger, though more versatile and practical, scholars? Firmness we admire, but obstinacy is destitute of sense, hence cannot but be reprobated.

The true investor in order to win must call forth painstaking labour to his aid or he unquestionably becomes a jobber who deals upon

The true investor in order to win must call forth painstaking labour to his aid, or he unquestionably becomes a jobber who deals upon the surface current of events, or otherwise a gambler who reads nothing, blunders on, and does something without object, yet in ninety-nine cases out of a hundred with certain loss. Investment can prove of no practical use unless through study it becomes searching, and when thus applied it will necessarily become earnest and grasping in its scope. As exemplifying our views, why cannot the investor ask himself, and ascertain the facts for himself, why so many who have embarked in mining pursuits still encounter defeat and disaster? There is no mystery involved, or exercise of intelligence required than is necessary in the discharge of the ordinary affairs of life. He could easily discern, with ordinary study and observation, that the shallow bunches of copper in the South-West of England were detected and wrought by our forefathers in the first half of the current century; that mining in depth is attended with extra costs of drainage and discharge; while the expenses of manipulation and dressing of ores when at surface are equally expensive as in days gone by; and that the discovery of rich ores in our colonies in days gone by; and that the discovery of rich oresinour colonies and abroad advanced the supply, so that demand was met at greatly reduced prices, hence the decadence of copper mining in the South-West of England. The investor could also discover that the production of tin in Australia has paralysed the production in England, and that none but our richest mines can sustain existence. Thence it follows that mining for that metal is fraught with risks that in ormer days were unknown. Still the investor could pursue his in-estigations further, and he would find that Cornwall possesses im-nense resources, if chemistry be called into her assistance, and the old system of procedure for once and ever exploded; while observa-tion would also denote that in various localities lead and blende can be raised in bulk that would tenfold reward capitalists for money em-barked and risks incurred in the development of the various veins. We could enumerats scores of mines that lay idle for lack of enterprise and capital to work them, but as examples we will give two for the nonce—Pencorse to the east of East Rose, and Wheal St. Andrew in Gwithian—the old burrows at the latter are a fortune

Wates has hitherto engrossed all but the entire attention of the London market as regards lead mining. The Grogwinion is a recent prize; Van is of longer standing, yet, like Devon Consols, it grasps within its own scope most if not the whole minerals of the district, though possibly hereafter Van Consols and Glyn may result in empthicing road. sult in something good

suit in something good.

It must be remembered, however, that Wales, rich as she is in prizes and promises, is not alone in the arena of successful lead mining. York-shire can boast of its wealth, and the gigantic fortunes acquired through industry and application, and it is gratifying to learn that intelligent brokers and jobbers are now directing their energies and capital in that direction, as evidenced in Pateley Bridge, West Pateley Bridge, and Craven Moor. Cumberland, Westmoreland, and Derbyshire also possess their mines of wealth, while Shropshire stands second to no county in England for gains to public companies.

time, are just merging into public recognition and adoption on our Exchanges in London as public companies. The vast wealth acquired by individuals is something astounding, while it is gratifying to observe the unanimity of purpose which exists between vendors and purchasers as to sharing between themselves and the public the profits resulting and likely to prove permanent hersafter from working the mines henceforth as public companies instead of private properties. As examples of these we may enumerate—Durham stands at the head of production in respect to its lead mines, rich as she likewise is in iron and coals. The mines to which our attention has been chiefly directed are the London Lead Company. Cornish Hush, Bolihone, and the group which is known as Beaupany, Cornish Hush, Bolihope, and the group which is known as Beaumont's Mines; yet it is with more than ordinary interest that we notice the introduction on the London markets of the Dryburnside Silver-Lead Company (Limited), in 100 shares of 50%. each, and which are in request at 20% to 25%, premium. The prospectus is exeach, and

plicit, yet terse, the shares whonly substituted and opulent. The most satisfactory and graphic description of the property we have yet seen is sent direct from a scription of the property we have yet seen is sent direct from a country of the property we have yet seen is sent direct from a country of the property we have yet seen is sent direct from a country of the property we have great from the property of t plicit, yet terse, the shares wholly subscribed for, and the plant tory practical and opulent. The most satisfactory and great

BEDFORD UNITED MINES.

SIR,—The statement of accounts sent out to the shareholder of this mine by Mr. Lawe, the secretary, on the 8th inst., for the meeting on the 19th, showed a cash balance in hand of 150/, 16s. 7d.; but the liabilities and assets a balance was shown against the mine of 642/. 7s. 11d. I understand from the minutes of the meeting the maccounts were passed, yet from some unaccountable means at addition of the item of 550/., showing a balance against the mine of 1192/. 7s. 11d. was produced at the meeting. Surely such the mine of text statements ought not to be sent out to shareholders with some little explanation just to satisfy an outsider; for if the latt statement, which shows a balance against the mine of 11997 7s. is some little explanation just to satisfy an outsider; for if the later statement, which shows a balance against the mine of 1192.78.11d, be correct, we may doubt if ever we have had a correct statement of accounts before. Will Mr. Laws be kind enough to explain this matter for the benefit of outside shareholders?

[For remainder of Original Correspondence, see to-day's Journal.]

INVESTMENT IN PROGRESSIVE TIN MINES,

The trade in metals has been languid for a considerable time, and only in this market but abroad, and in every foreign centre of dad. It has been, however, better sustained here than anywhere or the Continent; and, in fact, notwithstanding lower markets, th omplaints made by the merchants in metals have been up It has been the fashion with John Bull, long before the sent generation delved or dealt in mines, or anything else, to plain of the state of trade. If we were to take the opinion of interested in buying at low prices, and of the "bears" on our interested in ouying at low prices, and of the bears on ours Exchage, things are always very bad—at all events, complain bad trade are chronic. Trader, follow the advice of the $N_{\rm S}$ farmer—"Cry out before you are hurt, and then you are real all events." We have no wish to hold out false hopes, to off all events." We have no wish to hold out false hopes, to offer couragement to random undertakings or "blind adventures," practice of the "bulls" is just as objectionable as the "bears," though in an opposite direction. The manœuvres of both have detrimental to mining and to the course of investment in greatest, surest, most profitable, and most national of our inductives; but we maintain that the trade in metals, although at low prices, as might be expected from the general decline in the rat of all markets in all departments of commerce, has been better that that of any other sphere of industry in the United Kingdo This is true of the superior metals, however the reaction from traordinarily high prices and abnormal production may have

This is true of the superior metals, however the reaction from extraordinarily high prices and abnormal production may have depressed iron mining and manufacture.

In describing this as the most national of our industries, comme consent will support the opinion that the raw supply and the manufacture are both our own. We must send for our cotton to Expl. India, the United States, &c., that the looms of Lancashire and off "Outendom" may be supplied. We are not like the spiders, wedenot secrete the thread we weave. Our woollen manufactures feel their mills with the fleeces of Australia, South America, German, in fact the world. The makers of the beautiful linens, diaper, damasks, &c., in the Sister Country, compose their productions of flax brought from many countries, from Belgium to New Zealud. Even the furniture which graces our drawing-rooms is shaped from the wood of Honduras, Ceylon, and various distant realms. But the wood of Honduras, Ceylon, and various distant realms. But the are constructed of metals are mainly formed in what M. Guizot rather happily termed "underground England," meaning, of course, to apply the word as a generic name for our "Empire of Islands."

But the reader of this remark may exclaim, "Why, we importing the course of the second of the course of this remark may exclaim, "Why, we importing the course of the course of the course of the course of this remark may exclaim, "Why, we importing the course of the

name for our "Empire of Islands."

But the reader of this remark may exclaim, "Why, we importing copper, lead, zinc, and even iron!" That is true, but we export agest deal of what we import just as we get it, and nearly all the rest of it in articles fashioned by English hands. The fact, however, is the interpretation our imports of metals is, although a present necessity, a permanent reproach. British mining has not of late received anything stall approaching to adequate encouragement from British capitalist. We need not have recourse to foreign parts for tin, copper, lead iron, any more than for coals, china-clay, slate, granite, and other ninerals.

There are vast stores of the superior metals laid no in them.

There are vast stores of the superior metals laid up in the islands which are unworked because of the apathy of capitalist Nor is it requisite to get at them by guess, by the divining rod, or h Nor is it requisite to get at them by guess, by the divining roady harem scarem adventures. Mining has taken its place among the sciences, and like every science it is closely allied to some other, and probably more than one other. Geology is the handmaid of mineralogy. The country, as the miners call it, where deposits lie presents in all cases phenomena that are cognisable, determinable, and definite. If the miner works in the dark in one sense he doesn't do so in another, the light of philosophy guides him where the subrays never fall, the light of science precedes the miners' lamp. The English capitalist, especially the small capitalist, and the speculate must be discriminated; the former has often been a loser by the questionable enterprises of the latter, and is deterred from investigation. questionable enterprises of the latter, and is deterred fr in safe undertakings by the results to himself and oth Exchange gambling, "bulling," and "bearing," whereas only think he would learn to recognise that the intrin

only think he would learn to recognise that the intrinsic raise a mine is no more affected by a fictitious rise or fall on the St Exchange than the security of the building itself by the usuand faithless proceedings carried on beneath its dome.

We fancy we hear some thrifty clergyman, some maiden he some "warm" but careful farmer, some retired tradesman, spirited and active citizen say—Where shall we find a real siming enterprise at home where we may invest with reasmin ope of security and fair returns? Such persons need not got seek. There are magnificent progressive mines in this country-copper, lead, &c.—to which investors will be directed if they conprofessional men who are competent to advise them, and we reputation has been established as that of honest agents or defined in the second of the seco

Cornwall. The investor will not have to travel to Australia great Eastern Archipelago, or carry on a long correspondence persons he does not know in those or any other regions. It earn all about it by calling at the office of the company, Ethel House, Bishopsgate-street Within, and he can test the accurt the information he receives by an easy and pleasant journey the heautiful western counties of England to the property the beautiful western counties of England to the property New St. Agnes Mine Company, parish of St. Agnes, Cornwall, with enquirers will be met with a prompt readiness to satisfy them, and

enquirers will be met with a prompt reactives so seem from the enquirer receive every courtesy.

As to the company, the names of the directors will be seen from the prospectus to be men of probity and position, and competed judges of mining undertakings. As to the enterprise itself, itshittery may be very shortly and satisfactorily told; and as to the preperty, its excellence will be pronounced beyond all question by every intelligent investigator.

St. Agrae Cansels was originally introduced by Mr. John Buralley.

Agnes Consols was originally introduced by Mr. John Burall St. Agnes Consols was originally introduced by Mr. John June Reynolds, of Ethelburga House, Bishopsgate-street, who, and whose father before him, has been thoroughly conversant with Comining, and especially with scientific search for tin. The narrains of the original undertaking is "the old, old story" with too many Cornish mines which afterwards yielded abounding wealth. The price of tin fell, as fall it sometimes must, in common not only with that of other metals, but with that of all other commodities, in all markets, and everywhere. Investors at a distance from the mining

was been conting the more repring the more reprinted to the more repr New St. Agne

JULY 29

districts became necessary for control of the property to the property among the orig

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The property is the mine likely to be a success?" will be the natural enquiry wis the mine likely to be a success?" will be the natural enquiry wis the mine likely to be a success?" will be the natural enquiry institutes the matter with a view to business. The property is inestigates the matter with a view to business. The property is instituted in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall or in gladed in one of the richest staniferous districts in Cornwall, and instance of the country is regarded as a sure indication of valuable installic deposits. An impression has gone abroad that the impatts of the country is regarded as a sure indication of valuable installic deposits. An impression has gone abroad that the imports of the area greatly increasing, and must speedily drive the possity of the area of the country in time and the imports in during the same peri

SALES OF COPPER ORES.

COPPER ORES SOLD AT THE CORNWALL TICKETING, FOR THE QUARTER ENDING JUNE 30, 1876.

QL	AK	LEI	L	ADI	Mar	90	Tons.	10	10.	Amo	****	
Mine.							1505		.0	9.694	2	6
						0 9 0		000				6
Devon Great Cons	ols						2062			8,109	2	0
West Tolgus			***	0.0.0			951	***		5,501	18	
Marke Valley							1040			4,124	14	0
Creaver and Abral	ham	***					1174		***	4,112	0	6
West Seton				***		0.00	749			3,915	7	6
Glasgow Caradon				***			500			2, 98	1	0
Carn Brea							508			1,999	6	6
South Crofty							501			1,826	в	6
	***			111			660		***	1,672	12	6
East Caradon				***			330		***	1,665	9	0
Gunnislake (Clitte							309	***		1,577	3	6
East Fo.l			***				516		***	1,554	11	0
Phœnix		***					240			1,362	15	0
Wheal Basset							213			1,287	3	6
Botallack	***				***		141			1,226	0	0
Gawton							352	***		955	14	0
West Maria and F					***	***	374	***	***	916	12	0
Wheal Russell	orte	***		***		444	328		***	900	19	6
			***			***	111		***	893	3	6
Levant		***				***	170		***	818	11	0
Brookwood			0 = 0	* * *			114		***	815	9	0
West Poldice		***		100	***	* = 0	192			774	9	0
West Basset	0.00		000			***	170	***		745	17	0
Wheal Crebor	***				+ 0.0	* * *	195		***	680	15	0
Bedford United	* 0.0		***			* * *	96		0.00	460	4	0
East Basset	000		0.50		000		136	***	* * *	370	0	0
				400	0.00	***			409	362	5	0
Wheal Friendship			0.00	0.00	000	000	50	***	0.00			0
North Busy		***		* * 0		0.00	95		***	292	5	0
St. Aubyn United				000	0.00		50		0 0 1	255		
Carn Camborne	000			***			73			240	3	6
South Carn Brea	***			0.00			34		000	235	9	0
South Roskear	000				*00	0.00	35			199	10	0
Ambrose Lake				000		***	50			196	17	6
Champion's Ore						***	44			170	0	0
Belstone						***	26			157	6	0
North Levant	1.02	100		***			22		0.00	156	15	0
Unity Wood							30			153	15	0
West Roskear				***			34			150	3	0
Prince of Wales		***				***	36			134	2	0
North Treskerby	***					4.1	21		***	101	17	0
St. Agnes Consols						***	13		***	97	16	6
Wheal Agar					***		40		***	15	2	0
Catheiral						***	32		***	68	0	0
Wheal Grenville							10	***		63	15	0
East Grenville		***				***	20			61	9	0
South Polmear	***	***				***	9			57	16	6
New Rosewarne	***					***	14	***	**	55	13	0
			***			***	11		***	51	14	0
Penstruthal South Condurrow	***			***	***		33			41	13	0
			***	4.0.	444		9	0.0.0		27	17	0
						***	3			20	9	6
Pedn-an-drea		***	* * *	***	***	***		***				
North Treliegh W			4.0.0	***		***	2	***		18	0	0
Bouth Frances				0.04	10.0	* * *	6	$v \in \alpha$	* * *	17	11	0
James's Ore					***		2	***	***	13	0	0
				-	_	6.						

	Total						1	4,726	***	***	£65,637	1	•
Bweetland	and C	0.		***	***		***	1569	***	***	6,158	5	6
Charles L	ambert	***	-00	***			***	1082		***			
Copper M	iners' (0.						1464			6,619	7	6
Mason an	d Elkin	gtor	1	***			***	2472			10,311	18	5
Williams,	Foster	, and	1 C	0			***	2194	***		9,500	3	10
Nevill, D	ruce, ar	id Co),					1913	4				
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Vivian an								2801			£13,404		- 1
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						A Track		NE 30		\$ 15 e			
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Berehaven								1020			£ 6.118		6
Knockmalio	n				***			680	***		3,799	0	6
ligrony	***	***			***	***		32	***	***		14	0
allycommi	alc	***		***				83	***		4.13	17	6
ronebane					888			362		***	427	0	€
an-y-Bwleh				* * *				25	***		393	18	-
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loncurry			200	111	225	48.9	244	5	* * *	X 20 K		5	(
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			- 8	***			75%	203			697	10	1
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Westland as				***	***		***	540 132	***	***	9,719		

VENTILATING RAILWAY TUNNELS,—The invention of Mr. V. G. BELL, of Westminster Chambers, relates mainly to the ventilation of milway tunnels of considerable length, its object being to remove the products of combustion and steam or watery vapour generated

Total 8227£132,536 10 0

by the locomotive engines before they have time to cool down and mix with the cold air currents circulating in the lower part of the tunnel.

Meetings of Public Companies.

GROGWINION LEAD MINING COMPANY.

The half-yearly ordinary general meeting of shareholders was held on Friday, July 21, at the City Terminus Hotel, Cannon-street,

Mr. Ross in the chair.

Mr. G. Bedford (the secretary) read the notice calling the meetng. The report of the directors (which has already appeared in the
ournal) was taken as read.

The CHAIRMAN said that he had been so accustomed at these half-The CHAIRMAN said that he had been so accustomed at these har-yearly meetings to enter into a long discussion of what had been done in the past, and indulge in some prognostications as to the future, that on the present occasion he had, comparatively speaking, but little to tell the shareholders. It was useless to go over ground they had gone over before, inasmuch as those various points which he had at different occasions submitted for their consideration had nearly all been realised, and he should be occupying their time to nearly all been realised, and he should be occupying their time to no purpose if he went over the same ground again, and, therefore, he would confine his observations to the report and accounts. He might venture to say (what he had said on previous occasions) that the accounts were perfectly satisfactory; he had said the same each half-year, and he trusted he should be enabled to say the same for many half-years yet to come. (Hear, hear.) The great feature in the report now before the meeting was the statement that the returns were now 100 tons per month, but sufficient time had not yet elapsed to enable the company to realise the full pecuniary benefit of those sales—that was to say that the increased returns had not increased the dividend, as they would increase it on future occasions. increased the dividend, as they would increase it on future occasions. The shareholders would see by the report that out of the profit for the half-year the directors recommended that the same dividend should be paid as lasthalf-year—2s. 6d. per share. One word of explanation might be necessary on the paragraph relating to the dividend, because statements were made at the last meeting that the dividend to-day would certainly be as good, if not better, than the dividend then declared. No doubt a great many of the shareholders, if not all, would remember that about Christmas last, and a large portion of the early part of the year, there was a period of very severe weather, which he thought was far worse in the mountainous district of Wales than in any part of England, and the severe weather interfered very materially with the working of the mine, and caused a loss in time of very nearly three weeks. If they would also carry their memories back to the accounts which were presented last half-year, they would remember that there were seven monthly sales increased the dividend, as they would increase it on future occasions their memories back to the accounts which were presented last half-year, they would remember that there were seven monthly sales of ore, amounting to 490 tons, whereas for the six months just ended there had been six sales of ore, amounting to 480 tons; but although they had sold 10 tons of ore less and had expended more money than in the previous half-year, yet they had been enabled to maintain the profit, and in fact add a trifle to it, and he did not know whether they would agree with the directors in considering that such a position was sound and satisfactory. (Hear, hear.) One paragraph in the report alluded to the matter of the rent of the dressing-floors, but that was a subject with regard to which he need scarcely enter into any detailed explanation. The whole amount involved was not more than 80% per year, and he thought the shareholders would be content to leave future arrangements in connection with the matter in the hands of the board, who were fully alive to the necessity of doing all that was required, and who would no with the matter in the hands of the board, who were fully alive to the necessity of doing all that was required, and who would no doubt one day obtain all that was wanted in the interests of the company. With regard to the progress made at the mine, he thought he had better leave Mr. Kitto to explain that. The report of Mr. Kitto, dated July 11, was so satisfactory that it required no comment. Turning to the balance-sheet, the first item was the capital account—they would see there had been spent in developing the mine, in buildings and medium rest alexant mount this half-uver thaplast alto. buildings and machinery, a larger amount this half-year than last, alto-gether about 800%. He need scarcely say that nearly all that had gone in improving the property. The revenue account started with the charge of the six monthly pay sheets, which was slightly in excess of the amount charged in the corresponding half of last year; this was due to the fact that the working and development had been in excess of the corresponding period, owing to certain necessary works excess of the corresponding period, owing to certain necessary works for buildings, for foundations, for new machinery, new buddle, &c. The charge for engineers' and managers' salaries remained as before; the carriage of ores was slightly in excess, and if they made a calculation they would find that the 1962. 3s. 8d. charged under that head amounted to 8s, 7d. per ton of ore; at the same time it was scarcely fair to analyse it in that way, as some small portion of that was for the conveyance of materials up to the mine. The item of "rent of water-course, 404." had been explained to the shareholders before, as also had the item "rent of road to Michaelmas, 1876, 122. 10s." It had been explained that the company had no road of its own up to the mine, but were the tenants of an excellent road constructed at a heavy expense by a neighbouring company; an arrangement had been entered into by which the Grogwinion Company had the use of the road, the other company keeping it in repair. The royalty on the ores showed that an increase had excess of the corresponding period, owing to certain necessary work company had the use of the road, the other company keeping it in repair. The royalty on the ores showed that an increase had taken place over the last half-year; an increase not large but very satisfactory, because the larger the amount of royalty paid by the company the larger dividends there would be to pay to the sharecompany the larger dividends there would be to pay to the share-holders. (Hear, hear.) There was an item, "poor rates and road rates on royalty, paid to December, 82!. 5s. 104.," which was pointedly alluded to in the auditors' report; in the report which Mr. Horsley, the shareholders' auditor, had been good enough to make, he stated that the poor and road rates seemed to require the attention of the board of directors. But this was really a matter with regard to which the directors could promise very little, they were the parochial charges for the year ending Dec. 31, 1875, and therefore properly belonged to last year, but were not rendered till this year. They were based upon the amount of royalty paid to the superior landlord; they appeared large, and no doubt were so, but he was unable to say that the directors would be able to do anything to reduce those charges, but they would try all they could to do so. The auditor had also drawn attention to the depreciation of 12½ per cent, written off for wear and tear, and remarked that the it, written off for wear and tear, and remarked that the will determine whether this rate should be maintained after this date, or whether it can be properly reduced below the above average." He could only say the directors preferred to let it remain at 12½ per cent., and if they could increase it to 15 per cent. they would be much better pleased. (Hear, hear.) The miscellaneous expenses were the smallest that had yet been presented to the shareholders. On the other side of the accounts the sales of ore required no comment. The attention of the shareholders had hear directed to the foot that the average price had hear 15½ is now to the shareholders. On the other side of the accounts the sales of ore required no comment. The attention of the shareholders had been directed to the fact that the average price had been 15L Is, per ton, as against 14L 16s, for the half-year ending December, 1875. All the sales from July would be 100 tons per month; he did not know whether there would be seven sales this half-year, as they had lost three weeks, and he was not quite sure that that could be fetched up, but every effort would be made to do it. In the profit and loss account there was an item of 16L 17s, 6d, for transfer fees. representing 2s, 6d, for each transfer on 133 transfers, as against 53 transfers in the previous half-year; this showed that there had been more business in the shares, in fact, there could not be a more convincing proof that there had been a considerably increased business doing in the shares. The directors had charged the company with all pay up to the very end of June, and had taken no consideration for any ore which might be in bin to come against that item. In conclusion, the Chairman moved the adoption of the report and accounts, and said he should be very happy to hear any criticism which any gentleman might have to make upon the report.

A SHARRHOLDER said that perhaps it would save time, and he was sure it would be very acceptable to the shareholders if Mr. Kitto, the manager, would make a few remarks on the present consiston, but after the very exhustive report which he had written, and which had been sent round to the shareholders, he really had very little more to say.—The Gralkman: Perhaps you will say why the dividend is 2s. 6d. instead of 3s. (Hear, hear, and a laugh.)

Mr. Kitto said he thought that might be explained by the fact that although representing 2s. 6d. for each transfer on 133 transfers, as against 53

they had gone a considerable way during the last six months in opening up the reserves of the mine, yet they had not been able to increase the six-lend at the same analle turn in gay the additional expenses, and increase the dividend at the same some little explanation, or rather comment, and that was with respect to the quantity of ground which had been opened up during the half-year. The question had used to the property of the property of

of the day.

The Charman said there was no doubt there was ground enough for another mine on the bole referred to. He made the suggestion relative to raising more money, in order that the profits now coming to the shareholders might in no way be interfered with. Of course, if the direc ore curried out the suggestion, and issued the 2000 shares, the premiums received thereon would not be employed as capital, but would be invested in Consols as a reserve fund. (Hear, hear.)

Votes of thanks were then passed to the Chairman, directors, and Capt. Kitto, and the meeting broke up.

COOK'S KITCHEN MINING COMPANY.

A three-monthly meeting of adventurers was held on Thursday at the mine, Mr. WALTER PIKE, the purser, presiding. That gentleman read the statement of accounts, from which it appeared that the labour costs for the three months amounted to 21871. 13s, 1d.; the merchants' bills were 9151. 3s. 6d., and the water rents 100l., making a total expenditure of 32021. 16s, 7d. The credits were for black tin (50 tons), less 1-60th dues, 22741. 2s. 4d.; and extra carriage, 1l. 8s., leaving a loss on the 12 weeks working of 9271. 6s. At the last meeting there was a balance against the adventurers of 22021.

11. 8s., leaving a loss on the 12 weeks working of 9271. 6s. At the last meeting there was a balance against the adventurers of 22021., but a 10s call then made reduced this by 11731, and the balance now against the nine is 1956.

The a end very ret having been read, Capt. Thomas mentioned that during the last quarter they had increased their returns of tim by about 10 tens, while the costs were about the same as before, so that their loss was 5091, less than in the previous quarter. But it was impossible that they could pay costs with in at the present price, and it was useless to attempt it, although perhaps they might do a little better than now if they were to stor some of their tutwork. They were driving ends and proving points which it was necessary should be done, and if these were suspended the result of working would be different, but he was not prepare to recommend such a course, because under such circumstances they would be discovering nothing at all.

Capt. Thomas, in answer to Capt. James, said they were almost critin to have an improvement in the 320, and to come upon a good lode there. But if the mine was to be worked fairly, ground laid open properly, and the ends driven that they were now driving, he scarcely saw how they were to pay costs unless the price of the improved.

was to be worked fairly, ground laid open properly, and the emis divien matthey were now diving, he scaredly saw how they were to pay costs unless the price of the improved.

On the motion of Mr. Balley, seconded by Cipl. Janus, it was unanimously resolved to make a call of 7s 5d, per share. This will meet the loss on the last three months working.

Mr. Balley suggested whether some of the ends could not be suspended with advantage, but Capt. Thowas did not see his way ever to do so. The only point which they could stop with any propriety was the 190 cast—that would save them about 29. Per mon h.

The Puisser they drew the attention of the adventurers to the dispute existing between Cook's Kitchen and Tincroft relative to the water charges algoed to be due from the latter wine. He explained that, in accordance with a resolution passed in 1870, the Timeoft adventurers were to be permitted to drive a certain level into the Cook's Kitchen self, upon condition of their paying for the increased water thrown upon the Cook's Kitchen engine. Some difference of opinion having arisen between the agents of the two mines, it was decided at the last Cook's Kitchen needing to leave the matter in the hands of the poser and manager, with the view of coming to an amicable arrangement with Capt. Teague. Since then Mr. Pike and Capt. Teague have waired upon that gen! cann, with the result that he has declined to pay the money said to be due from him, at the same time stating that the Cook's Kitchen shareholers had their remody in an agreement was made so far back as the year 18 %, when Cook's Kitchen to pay heavy sum to Tincroft for an encreachment, and a general arbitration clause was inserted in it, to the effect that if any difference whatever should arise hereafter between the adventurers of the two mines, touching the encreachment, or any other matters whatever in connection of the Stannaries for the time being might appoint, on the application of either of the parties, and his decision should be tinding on both the self-enc parties. It, therefore, appeared to him (the Purser) that the proper course for them to pursue was to make an application for the appointment of an arbitrator to settle the question between the two mines. Captain James said he did not agree with the purser as to the bearing of the

tion clause. The adventurers must be aware that the clause which the had just read was entered into something like two years before the question water charges ever arose at all; and inasmuch as those water charges were

arbitration clause. The adventurers must be aware that the clause which the purser had just read was entered into something like two years before the question of the water charges ever arose at all; and inasmuch as those water charges were a secondary consideration, he did not think the arbitration clause had any reference whatever to that question. That clause was simply put in as referring to the encreachment dispute, or any other difference of opinion that might arise upon it. He did not believe for a moment that C: ptain Teague could escape from the responsibility attaching to the agreement which he had himself entered into, and the adventurers owed it to themselves to enforce the payment of the money that was due.

The PUESER thought it would be found that the arbitration clause was binding upon them, because it provided not only that the encreachment question, but "any other matters whatever in connection with the said mines," should be referred. Captain JAM's argued that Captain Teague had no right to withdraw from his agreement. Out of 300, which Captain Teague weet them he had only poid about 80.; and the adventurers of Cook's Kitchen would be guilty of a great injustice to thouselves if they allowed him to go scot free. He was quite prepared to contribute his mite in order that the question might be tried. They would never be able to get on in Cornish mining if they allowed people to back out of their agreements at their own will and pleasure to the disadvantage of others. The question, but their proposals had been rejected; and therefore the time for conciliation and compromise had passed. The agreement had been ignored by Captain Teague; and if the case was submitted to a jury, he had no doubt whatever what the result would be.

After some further discussion, it was unanimously resolved that the

rand if the case was submitted to a jury, he had no doubt whatever what a result would be.

As result would be, a submitted to a jury, he had no doubt whatever what he result would be in the hands of a committee, consisting of the purser, manager, for Bailey, and Mr. Husband, to consult a legal gentleman, and to take such necessary to bring the matter to a conclusion.

This concluded the business of the meeting.

WEST FRANCES MINING COMPANY.

A three monthly meeting of adventurers was held on Thursday,
Mr. Pike, the purser, presiding.
The accounts showed that the twelve weeks' labour costs were
2227. 14s. 2d., and the merchants' bills 1009. 0s. 2d., the total being 3.34/, 14s, 4d. The credits were for 60 tons of tin, less the dues, 2760/. 3s. 11d., showing a loss on the three months' working of 474/. 10s. 5d., and a balance against the mine of 2033/. 6s, 11d.

The agent's report, a very encouraging one, was read, and Capt. Thomas, the managing agent, mentioned that during the eight years he had been connected with the mine there had not been a single call made, although for a large number of years prior to that the calls were continuous. The PURSER added that although the deficit was a large one, he had consulted with some of the largest adventurers in the mine, and the general impression was that they should go on for three months longer without making a call in the hope that in the meantime there might be an improvement in the price of tin as well as in the mine.

that in the meantime there might be an improvement in the price of tin as well as in the mine.

It was resolved to carry over the ba'ance to the debit of the next account.

Mr. CARTER called attention to the excessive consumption of coals to the ton of suff as compared with other mines in the county. He understood that the standard consumption was about \$4 lbs. to the ton of staff, but at West Frances they were consuming something like 190 lbs. He did not at all blame the agents, but he suggested that the machinery required to be looked carefully after.

Mr. HOCKING (the engineer) explained that the excessive consumption complained of was due to the fact that a large amount of extra duty was done by the engin; which was constantly employed pumping water, and that the condensing and feed water was of so deleterious a character that it injuriously affected the boilers in so short a time that they could not be worked with any degree of pressure with safety or prudence.

A vote of thanks was given to the South Frances adventurers for allowing the West Frances to drive the 100 into their sett, and the meeting separated.

ABERDAUNANT LEAD MINING COMPANY.

The general meeting of shareholders was held at the offices of the company on Thursday, when the report and balance-sheet were unanimusly passed, and the directors and auditors were re-elected.

The CHAIRMAN, in the course of his remarks, pointed out the im-

The CHAIRMAN, in the course of his remarks, pointed out the improved position of the company since the last meeting. He stated that a new engine-shaft was being sunk, a new engine being on the mine. The shaft was intended to intersect the lode, which was the Van lode, and of enormous width, 40 fms. below the deep adit, but the lode would be cut at each 10 fms. below the deep adit. An important point of exploration was being carried out in the south part of the sett to cut a south lode, from which good stones of lead had been raised. This operation would reach the lode 30 fms. from surface and the state of the set of the been raised. This operation would reach the lode so like, from sar-face in the course of October or November. A small branch of the lode had already been passed through.

BIRDSEYE CREEK GOLD MINING COMPANY.

The annual general meeting of shareholders was held on Tuesday at the offices of the company, Austinfriars,
Mr. J. T. P. Pechery in the chair.
The notice calling the meeting was read by Mr. W. J. LAVINGTON, the Secretary. The report of the directors, which has already been published, was taken as read.
The CHAIRMAN, in moving the adoption of the report and active the chairman and the report and active the statement of the directors that

counts, expressed his own wish, and the wish of the directors, that they had a more satisfactory report to submit. When they met a year ago the ground in Neece and West had materially improved, and there was reason to believe the improvement would be permanent, and that large returns would be made during the present year.

They would see from the report of Mr. Powers that the richness
which they had in Neece and West, and which resulted in a profit of \$8000 for 26 days, was only temporary. They encountered a piece of hard ground, but he was happy to say there was now some little improvement, which was shown in the return of last month, when \$2250 were realised. Mr. Bowe, one of the directors, was now at

\$2250 were realised. Mr. Bowe, one of the directors, was now at the mine, and just before leaving Oregon wrote the following letter in answer to a communication which had been sent him:—

June 23.—It is very true that the results thus fur for this season have come short of what we had very good reason to expect. The Neeve and West has fallen far short of its areastoned yield from some cause or other. They had great troube and delay in washing off their first blast, it having broken up in hage thunks in stead of pulverising it, as usual, and besides that the bank is evidently in a poor streak of dirt, but I do not think it can last. Mr. Fowers writes me that he titinks the results will be better for June washing, and so on for balance of season. The Red Dog has not done badly, considering that it is opening round a deep shaft, and is hence compelled to work to great disadvantage. From what I can learn from Mr. Ennis I am very confident that the Red Dog claim will pay well for a long time as soon as opened a little further. You can rest assured I shall do all I can to increase the yield, but I have confidence that Mr. Powers is ding all that any person can do under the circumstances. If the gold is not in the dirt of course he nor I cannot put it there, and more than that, neither he nor I contide see into the dirt to tell positively that it was there. We haved our judgment upon what had been done and from the appearance, and no person, however carful, could have come to any other concusion than what we did as

what should be reasonably expected of the mines.

Now he (the Chairman) thought that that was a very fair letter. The hope which the directors had was that they might stortly get a dip in the Neece and West, and realise what they all hoped to realise. They were washing the Red Dog claim, and there was no doubt that claim would prove very valuable, and he hoped next season the directors would have a different state of affairs to present to the shareholders. At all events a profit had been made during the present year of 2002, whereas when they met last year they indebted to Mr. Powers, the superintendent, over 1000%, but

that had now been wiped off, and with the remittances now comin forward there would be sufficient to meet the delentures and de benture interest due in October next. He believed the time would come when the sharsholders would be rewarded for the patience with which they had stuck to the concern. In conclusion, the Chairman moved the adoption of the report and account.

ments of facts. The directors were largely interested in the company and in making it a success.

The BECRETARY said there was one important fact which the shareholders ought to clearly understand. Some gentlemen seemed to thick that the Birdseye Creek adjoined the Sweetland Creek, whereas it was 15 miles distant, and not connected with it in any way. The Birdseye Creek had over 200 acres of ground, whereas the Sweetland Creek never had more than 20 acres.

Mr. POWELL: Is there a fair chance of this company lasting 20 years?

The CHAIRMAN said there were 300 acres, and they could not work out more than five acres a year, so the shareholders could make their own calculations as to the probable duration of the the mine. (Cheers.)

In reply to a question, the CHAIRMAN stated that although the directors' fees had been charged in the accounts, they would not be taken until the financial condition of the company improved; and he was also authorised to state, on behalf of his codirectors and himself, that if the present condition of the company continued a reduction would be made in the fees for the current year.

The report was then adopted.

Mr. 4 G. Kitching was resolected a director. The auditors. Mr. F. Bennett

port was then adopted.

G. Kitching was re-elected a director. The auditors, Mr. F. Bennett
C. O. Rogers, were also re appointed.
ial vote of thanks to the Chairman and directors closed the proceedings.

PESTARENA UNITED GOLD MINING COMPANY.

The ordinary general meeting of shareholders was held, on Thurs y, at the offices of the company, Queen-street-place,
Mr. F. F. Quin, M.D., in the chair.
Mr. W. H. Rowse (the secretary) read the notice calling the day, at the offic

Mr. RICHARD TAYLOR read the directors' report, of which the

Mr. W. H. ROWSE (the Secretary) read and notice cannot be meeting.

Mr. RICHARD TAYLOR read the directors' report, of which the following is an abstract:—

The report of the directors states that the secretary's circular of June 7 gave reasons why the annual meeting has been put off to a period two months beyond the usual time. The directors are now enabled to give to the shareholders the very latest intelligence as to the condition of the mines, for in the first week of this month the whole of the property was minutely examined by Mr. R. H. Taylor, a member of the firm of Messrs. John Taylor and Sons. They are also able to present a supplementary statement of accounts, brought down to March 31 last. The expenditure for the year ending Sept. 30 was almost entirely on capital account, and consisted of the cost of completing the inclined plane shaft and of receting the new mills and machinery at Pestarena; also in laying open and exploring the lodes at Val Toppa. The working of Val Toppa during the subsequent six months has resulted in a profit of 1954/. 9s. 10d., as shown by the supplementary accounts, which profit has been applied to meeting a part of the cost of the new works. The reports of the managers lead the directors to hope that this rate of profit may be maintained. From the want of funds no steps have been taken to construct the wire rope road referred to in the last report; consequently, the lower grade ores are being accumulated at the mine until such time as a cheaper mode of transport can be provided. At Pestarena the inclined shaft has been been sunk to the 90; 12 mills have been exteed and are at work, and most of the other machinery has been completed, so that there is now at the mine all the necessary plant for a regular return of gold. It is satisfactory to know that the lode in the deepest part of the mine is, as was expected, of very good quality, and there is every reason to believe that large quantities of rish ore will be laid open by the proposed 90 fm. levels. Chiefly by the exertions

any intending leader. And as the directors had to look to Islaina capitalists of the loan, it was wisely considered by Mr. Franzi that increased confidence would be felt if the statements of the company's officers were confirmed by native engineers. The directors have no doubt that such testimony to the value of the mines and works will be appreciated by the shareholders.

Tarin, July S.—At Mr. Franzisch Taylon and the property of the mines, in order to see the nature of the property mortgaged to them as security for the money they advance to the company. They saw all the surface works, machinery, &c., and seemed very much pleased with it all. We also witnessed the melting of the gold produce of June, being, as no doubt you have been already informed, Val Toppa, 215 cos. 11 dwts. 23 grs.; Pestaren., 490zs. 14 dwts. 8 grs.: total, 265 ozs 6 dwts. 5 grs.; which has been sold for 24,995 80 lire Italian. I have not yet got the figures of the expenses of June, but I have no doubt there will be a good profit on Val Topp.. After the departure of those gentlemen I thoroughly inspected the mines, beginning with the Pestarena district. They have been working, as you are aware, till now with six mills, but six others are now ready and at work, the machinery all going very well, and the duty done by the mills has been better than was expected; over 89 per cent. of the total gold contained being extracted. The pumping and drawing machinery in this district is all in good working order. I must especially mention the drawing machinery for the new short, which works admirably. Thereis, unfortunately, just now a great sarcity of miners both at Pestarena and Val Toppa, which prevents the work being pushed on as actively as it should be, both as regards production and preparation. I think for the remainder of this fine season we must content ourselves with working the 12 mills erected, and in the witner, when the vanyon and preparation. I think for the remainder of this fine season we must content ourselves the property of the pr

min moved the adoption of the report and accounts.

Mr. Street seconds the resolution, and suggested that as there was a large number of mines in Cdifornia which were covered by English shareholders it would be a desirable thing if the English companies subscribed together, and sent out a competent and trustworthy English inspector, who would visit the different mines by turns. He though the shareholders had no reason to despair of the future of this company, and certainly had no reason to despair of the future of this company, and certainly had no reason to find fault with the management. The Chairwan said the directors and intelligated Mr. Sheel's suggestion relative to a travelling inspector, because Mr. Bowe had visited the mine; Mc. Bowe had perfect knowledge of hyrivalis mining, and the directors expected shortly to receive a report from him, with which the shareholders would be made acquainted. The deposits in these old river beds were always irregular; where the deposits were soft they were generally poor. They were generally rela, and where had they were generally poor. They were generally rela, and where had they were generally poor. They were generally rela, and where had they were generally poor. They were generally rela, and where had they were generally poor. They were generally rela, and where had they were generally poor. They were generally rela, and where had they were generally poor. They were generally poor. They were generally poor. They were generally rela, and when had good deal of the You Bayrins said that in fact they had there about 200 acres of unworked; of hyrival training the poor they had the deposits were somewhat disappointing this year, there were indications of improvement in the fact that the last month had given upwards of 400, proft, and the gravel remaining to be worked would appear to be worked would not be read and a remaining to be worked would appear to be related to the future of the future as a reward for their remaining to be worked would appear to the lively south s

lode, but poor; it should, however, be continued if miners could be obtained. A Rosso and New lodes; the Zero level should be driven on to meet this. Bottom No. 2 level some stopes are working on the flat lode, as well as some ends driving on the flat lode, as well as some ends driving on the flat lode, as well as some ends driving on the flat lode, as well as some ends driving on the flat lode, as well as some ends driving on the flat lode, as well as some ends driving on a branch of the new lode, as it is not a the No. 2 level some mem are driving on a branch of the new lode, as it is not a level some trail ends being driven on the Great Quartz lode, at the No. 2 level; the loss is a look in the looking very well, and I do not think the reserves are being at all diminished, that is to say, fresh ore ground is being opened up equal to what is taken that is to say, fresh ore ground is being opened up equal to what is taken that is to say, fresh ore ground is being opened up equal to what is taken that is to say, fresh ore ground is being opened up equal to what is taken to make picking floors and a road to the sledge road from what is taken to make picking floors and a road to the sledge road from the what is taken to make picking floors and a road to the sledge road from the when the slant to make picking floors and a road to the sledge road from the when the slant to make picking floors and a road to the sledge road from what is the slant to make picking floors and a road to the sledge road from what is the slant to make picking floors and a road to the sledge road from what is taken to make picking floors and a road to the sledge road from what is read to make picking floors and a road to the weat of quartz lodes and to make picking floors worked in the upper levels; this will be contained when the slant of make an only to be driven about 12 metres to cut the west of quartz lodes and the well as the slant of the slant and the company make an be obtained. The production of Val Toppa might be increased on the

interest and expectation to the composite of the sale to its passent depth. The delay in the inspection gave also to the manager the satisfaction of examining the new works at Pestarena, and of witnessing the first 12 mills in full operation. Holding our mesting now we are able to present to you a statement of the rerent account made up to March 31 last. This statement will gire you account made up to March 31 last. This statement will gire you come estisfaction, and hold out to you some hope. I may also account made up to March 31 last. This statement will give you some satisfaction, and hold out to you some hope. I may also state that, so far as we are able to judge, the rate of profit from Val Toppa from March to the present time is not less than the shown by the accounts now placed before the shareholders. With regard to the appearances of the different mines, I think it will be more satisfactory to you if I leave for our managers—Messr. Taylor—to describe to you what has been done during the pay year, and the present prospects of the mines. I may, however, draw your attention to the fact that the lode in the bottom of the mines at Paschiera is a rich one, and is equal in value to what weekpeeds at Paschiera is a rich one, and is equal in value to what weekpeeds your at Peschiera is a rich one, and is equal in value to which necessary and that an important improvement has taken place during themselves at Val Toppa; the particular you and that an important improvement has taken place using the present month in one of the levels at Val Toppa; the particular you will find set forth in a note at the foot of the managers' report. Now, if this lode should continue as valuable as it now is the return Now, if this lode should continue as valuable as it now is the return of gold from Val Toppa may be expected to be largely increased. The question of providing the funds for completing the works at Pestarena, and for the explorations at Val Toppa, has been one which has occasioned your directors a great amount of anxiety. I need hardly remind you that in consequence of the preference share not having been all taken up we were placed in a position of great difficulty, but I am glad to say that after very protracted negotiations, conducted with great zeal and ability by Mr. Franzi, our financial agent in Italy, we have succeeded in obtaining a temporar loan of about 14,500%. We are led to confidently expect that we may be able to renew such part of this loan as may be required. Every effort is being made to increase the profits of the property and so gradually wipe off the debt. The main difficulties have now been overcome, and it is satisfactory to be able to state that belies that at no period in the history of this company have the mins that at no period in the history of this company have the miss presented such good and promising prospects as they do to-day, It must of necessity take some time before we can clear ourselved our present indebtedness, but I believe the time is not far distant

when some return may be made to the shareholders. I more that the report, &c., be received and adopted.

Professor H. J. S. SMITH seconded the resolution.

Mr. RUCHARD TAYLOR said he had a few remarks to make, but he would not detain them long. He might inform them that it we only recently that his brother and himself had taken into parties when the first two sldest some, his own, one of the time the interest. ship their two eldest sons; his own son, at the time the ingestion was made, was not a member of the firm, but simply one of the agents of the firm. His son had lived so long in Italy that his none. tion was made, was not a member of the firm, but simply one of us agents of the firm. His son had lived so long in Italy that his new was pretty well known to the Italian capitalists with whom the company had had to do, and also to the most distinguished mining engineers in the country. His son was able so to time his visits to meet on the mine the representatives of the bank from whom the country. company had had financial assistance. He would now say a fer words as to the position of the mine. It would be remembered that when his firm took the management of the mine in hand they sate when his firm took the management of the mine in hand they st work with Mr. Harvey (the superintendent selected at the time) work with Mr. Harvey (the superintendent selected at the timely see what was necessary to bring the mines into a profitable stated working. Productive they were, and largely productive, but the expenses of working were so great that there was not any profit. It appeared that the working expenses were great, in consequent of the deficient arrangement and want of proper management because the circumstances of the country were favourable, and the mines ought to be worked at a very cheap rate. The first min in importance was that of the Peschiera, and adjoining was another important mine, the Acquavite. On those mines the system of working might be described as barbarous; the ore entirely, and the wife ing might be described as barbarous; the ore entirely, and the walk in part, were brought up by manual labour, and therefore the surface, to pump the water in a proper manner, and also topic vide means of reducing the ores on the spot, instead of carrying the to a distant establishment, at a cost for transport which swallows a large proportion of the value of the ore. The plan adopted was always in a large proportion are some from the system of the ore. sink an inclined plane shaft from the surface to the deepest part mine, the inclin incline being as near as possible parallel to t shoot of ore dipped, and it was calculated by which the shoot of ore dipped, and it was calculated by the they would be able to reach the deepest part of the mine, where the proyed to be rich. The progress of that work had be formly satisfactory, although very difficult at first, owing immense blocks of granite which were encountered in which were encountered in which were satisfactory. called the Moraine. The shaft has been completed, and not of the bottom of the mine been reached, but the shaft had deepened still further, to the proper depth of the 99. The inplane was also intended to work economically the mine of Acq. by forming a communication in the 50, which had been carried to a certain point, and now by a winze a communication width made between that mine and the deepest level of the Acquarks that the mine would also be at complete command. As regard that mine, his son would be able to tell them that there was a gradent of productive ground which would be immediately available. It mills which had been removed from the old establishment with doing good work, but 12 mills were not sufficient to return the produce of which the mine was capable, and, therefore, the remaining 12 mills which were in reserve would be removed gradually insist to provide sufficient milling capacity. Therefore, the works which had been decided on in the first instance had been well excust, and were all properly adapted for the purposes for which they were by forming a communication in the 50, which had be and were all properly adapted for the purposes for which they well intended. With respect to the Val Toppa Mine, during the grant part of the last two years operations had been suspended in the mine except some evaluations. except some exploratory works, which had been succe had discovered side veins branching from the productive the veins known, which were already giving very handsome and there had been in one case what might be called a point traordinary richness, as he was not aware in the history mine of any lode or vein which had done more than the one in the intermediate level in Val Toppa, which had yielded 12 ton fathom, producing 4 ozs. 5 dwts. per ton. If we can add to the

of this entually get hich we are hich we are loratory wor our expectations two of ich pres which present there was sca obtained there he successfull from an emine of the treatme long to be abl ect.

JULY 2

Mr. C. J. HARV been in its service servely done ju-CARDIF

d yesterda The notice

The report

wages fro nust bear much headeavoure ing th company vendors, N Mr. Yeo to At the Per

of the coa

posits of this mine good profits from Pestarena, and if we can seminally get profits from the intermediate mine of Cani (upon seminally get profits from the intermediate mine of Cani (upon seminally get profits from the intermediate mine of Cani (upon seminally get profits from the Cani Mine, there were at powers two or three projects for the treatment of the ore, one of seminal two or three projects for the treatment of the ore, one of the cani wine the canilla strong probabilities of being successful, and if so the presented strong probabilities of being successful, and if so the canilla strong probabilities of the great of the ores could be desired there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there, which would be profitably worked if the ores could obtained there.

the treatment of the possible of the shareholders upon that log to be able to speak more openly to the shareholders upon that log to be able to speak more openly to questions, said the present system of drain-like. Hennes was found to be sufficient. In the inclined plane it was proposed at the mines was found to be sufficient. In the inclined plane it was proposed that it is the state of the part in a fresh set of pumps worked by the same engine which worked the old spat in a fresh set of pumps worked by the same engine which worked the old spat in a fresh set of pumps worked by the same engine which worked the part in the same and th

gr. 6. Hashand Advantaged the particular care had been paid to the tailings; subplied had been constructed for catching all the fine slime containing pyrites. The report was then adopted. The retiring directors (Mr. H. J. S. Smith and Mr. W. W. Fisher) were re-elected, if Mr. Swaffield was re-appointed auditor. doute, the Friedrich of the tailings of mining establishment.

f. E. HENRAGE TAYLOR said that particular care had been paid to the tailings for the tailings of the tailings of the tailing pyrites.

iring directors (ar. H. o. S. Shitting Swaffield was re-appointed auditor. of thanks to the Chairman and directors closed the proceedings.

CARDIFF AND SWANSEA SMOKELESS STEAM COAL COMPANY.

The third ordinary annual general meeting of shareholders was ald yesterday, at the Capnon-street Hotel,
Mr. J. D. SHAKSPEARE, F.G.S., in the chair.

it will

The notice calling the meeting was read by Mr. JOHN DAVIES,

the secretary.

The report of the directors, which was taken as read, was report of the directors, which was taken as read. was—

28 AND CHURCH.—The capabilities of this colliery have been satisfactorily
juring the year, showing that an output of 630 tons a day can be depended
a the 2-ft. 9 in. and 6-ft. seams, which, being the average work actually
cores that up one shaft alone at least 70 tons per hour have been raised
ine whole working time. A sinking engine that was not required at Resolven,
engener of work there being discontinued, has been placed in the pit, and
good from the 6-ft. seam in a most satisfactory way. It is advisable that
ther development of this colliery should be carried out by sinking to the
ther development of this colliery should be carried out by sinking to
the discount from same would increase the present quantity by 400 or 500
go attput from same would increase the present quantity by 400 or 500
go attput from same would increase the present quantity by 400 or 500
go attput from same would increase the present quantity by 400 or 500
the brickworks require about 1290%, to complete them, and this is recomto be done.

cheworks require about 1390f. to complete them, and this is recomdone.

The sinking at Tyra of the two pits to the lower measures, which he covenant in the lease, was discontinued prior to our ordinary gelat year, and Major Vaughan Lee, our landlord, has kindly continued a "waiver" in that respect, on condition of our sinking a pair at 80 yards to the No.2 seam in the southern portion of the property. Is have been opened out at Cwm, on the No.1 seam, capable of givenone aday. A small pumping-engine, that was standing idle at the ore mentioned, has been fixed at the entrance of one of the Tyra levels, alling coal there from the deep. A level has been driven on the No.2 set Tyra Fits, the face of which is now in troubled ground, but as the illites of output are largely in excess of the demand the work there porarily su-pended. We regret to say that, in consequence of the unceen found impracticable to keep these Resolven Collieries in regular equence of which the output has not exceeded 69,000 tons, whereas the sare equal to nearly treble that quantity. The brickworks are in

ties are equal to nearly treble that quantity. The brickworks are in r_i —In the opinion of the board it seems desirable that all shareholders understand the nature of the company's business in the sense that the rises for our coal are the steamship carrying trade and the export coal in purposes, both of which have been for a lengthened period much e causes of the depression being the stagnation of trade generally, piles of coal throughout the country continue much in excess of de-output from the whole property has exceeded 200,000 tons, and, had as Resolven coal been equal to capabilities, it might have exceeded Referring to the extraordinary general meetings of last year, and to be company, there appears an error in the calculation of uncalled to be 40,000. available for future development, the fact being that d 40,000. there was required a sum of about 20,000. required to meet urred prior to July 31, 1815, which liabilities, other means having ed the call in January last unavoidable. The recommendation of the closs the capital account has been carried out, and no new works menenced.

idered the call in January has to been carried out, and no new works commenced. Spect to the modification in the terms of purchase as recommended for the carrying out of which was placed in the hands of the company's by resolution of the extraordinary general meeting on July 30, 1875, the eight from them on the 19th instant the following communication:—sld for giving effect to the modification was approved of on behalf of the pat it being suggested that it was competent to anyone dissentient share-invalidate the arrangement by injunction, and that thus the company counter the inevitable hazard of litigation, the advice of Mr. Southgate Westlake, both Queen's Counsel of high authority on such subjects, was ad although they were of opinion that the holders of the vendors' shares eshares to be taken by the vendors would be bound, they advised that, diffication involved the power of a company to alienate permanently a profile, no confidence could be entertained that the High Court of Justice hold the arrangement against a dissentient shareholder of the shares the public." In conclusion, the directors feel bound to state that, conhede depressed condition of the coal and iron trades, and the unprecedently it miling for some months past, the financial position of this company is cass unsatisfactory, and more particularly when compared with the lects shown by other concerns of a similar nature. In consequence of the death of Mr. R. Shaw, Mr. Henry White, J.P., of Mineing-lane, was fill the vacancy. Messrs. E. P. de L'Hoste and Thos. W. Shaw, having their seats at the board, Messrs. Waiter Boden, of Derby, and Robert of Maidenbead, were elected to fill the vacancies. The directors retiring are Messrs. Waiter Boden, of Derby, and Robert of Maidenbead, were elected to fill the vacancies. The directors retiring for themselves accordingly. Messrs. Cooper Brothers and Co., the offer themselves accordingly. Messrs. Cooper Brothers and Co., the offer themselves accordingly. Messrs. Cooper Brothers and Co., the offer themselves

nd said it was customary to make some few verbal explanations of the information of those shareholders who were unacquainted with the difficulties and exigencies of the coal trade. The flood tide the coal trade had begun to ebb before this company was formed the coal trade had begun to ebb before this company was formed fee years ago, and had continued so to ebb ever since, and he could by hope that they had at last reached the dead low water of low ce. Everyone present had heard of the reduction in colliers' ges from time to time, but the effect was not perhaps well undered, and, therefore, the supposed benefits arising therefrom were by much overrated. Speaking in general terms, wages formed, but one-half of colliery expenses, and hence it was that there a only a delaystic art. One of expenses well as the there only a deduction on 10s. of every sovereign expended. They the first two being any theorem that in the first two years of the existence of the company they received 17½ per cent., which was not a very bad dividend; if all investments paid as well as that there would not be so much heard of bad investments. In the report the directors had endeavoured to explain the impracticability of obtaining dividends during the results. deavoured to explain the impracticability of obtaining dividends during the past year, from the extraordinary depression of trade, and the limited time—not more than 10 months—that the company had worked. The first of those ten months was included in the strike, the second month was see of imperiest work only in consequence of having to recover from the difficulties which they were placed by the strike. As regarded the present position of the company, the directors were by no means dissatisfied with its financial position, more especially in comparison with their neighbours. He could point out a score of coal companies within a radius of ten miles of the company which had some more or less to grief, and the view of the directors on the position of the company were supported by a letter which had been received from one of the radoes, Mr. Yeo. That letter was also important, as it showed the willingness of Mr. Yeo test the matter which was now unsettled between him and company at the Pentre Colliery there had been a profit of 10,000%, but at Resolven there had been a profit of 10,000%, but at Resolven there had been so limited that the colliery had only worked three days a week for the greater part of the year, and in the last three months of the financial year it had only worked more then two days, and everyone connected with the working of collieries mist know the great additional cost of working collieries irregularly.

Mr. P. P. Mosley seconded the resolution.

The SECRETARY, in reply to Mr. Bell and Mr. Batchelor, explained two or three

The SECRETARY, in reply to Mr. Bell and Mr. Batchelor, explained two or three items in the accounts.

Mr. Russell. Etans, referring to the paragraph in the report relative to the proposed arrangement with the vendors, said he thought the vendors had made a considerable concession to the company. He was told at the time that there was no legal difficulty in carrying out the arrangement, except that some of the shareholder objecting. He thought it extraordinary that 12 months had elapsed without any arrangement having been come to with the vendors, and practically speaking the company was in a worse position to day than 12 months ago. If the arrangement was not carried out, not only would the vendors take any profit which was made, but they would also have a good slice out of the capital of this concern. He moved that the meeting be adjourned, and that a small committee be appointed in order to consult with the directors and the representatives of the vendors, with the view of seeing whether this arrangement could not be carried out.

The SOLICITOR, in answer to Mr. Jennings, said the difficulty in the way of the proposed arrangement being carried out was that any shareholder could object and take action in the Court to prevent it being carried out.

Mr. INCs (solicitor to the vendors) said it was a great pity the modifications in the arrangement sould not be carried out, as it would save an immense amount of trouble. Whilst differing from Mr. Evans with regard to the appointment of a committee, he certainly thought the directors and the representatives of the vendors should meet at as early a date as possible, with the view of seeing whether the arrangement with the vendors could not be modified and carried out, and the meeting might be adjourned for a short time in order to enable that to be done. He moved that the meeting be adjourned for three weeks to enable the directors and vendors to consider with the solicitor to the company how the proposed arrangement, or any modification thereof, with the vendors coul

arrangements.

The amendment of !Mr. Ince was then put and carried; and the meeting adlowend for three weeks, at the same time and place.

WEST BASSET MINING COMPANY.

WEST BASSET MINING COMPANY.

A three-monthly meeting of adventurers was held at the mine on July 20.
Capt. James Evans (the purser) read the accounts, which showed that the balance against the mine at the last meeting was 592. 19s. 2d. The labour costs for March, April, and May have amounted to 5935. 0s. 10d., and the merchants' bills and coal account to 1346. 6s. 6d.: making the total expenditure 7574. 3s. 6d. The credits have been for copper ores 5554. 4s. 9d., and for 155 tons of blac: tin 5586.; showing a loss on the three months' working of 196. 2s. 7d., and a balance against the mine of 752. 18s. 9d.
In answer to a question from Capt. James, the Chairman stated that last mouth they sold about 55 tons of tin, and stamped 42 or 43 tons. During the first six months of this year they raised 291 tons, of which they sold 291 tons. They had slightly reduced the stock in the house. The price per ton which they had been receiving lately was 44. 2s. 6d.
Capt. James saked what amount of dues was being paid?—The Chairman replied that Mr. Basset received 1.30th and Mr. Fortesoue 1.24th.
Capt. James: Why is it that there is this difference between the two?—The Pursers: Our deed with Mr. Basset provides that we pay 1.30th until we can pay our costs or are receiving dividends. As yet we have no deed from Mr. Fortesoue, but we have a letter from him setting forth the conditions on which it will be granted.
Capt. James: Could we not induce Mr. Pease, Mr. Fortesoue's agent, to grant us the same terms as Mr. Basset ?—The Pursers: I saw Mr. Pease just hore the last account, and he then said if tin did not improve the question of a reduction in the dues should be taken into consideration. We saw him again on Monday, and then he informed us that he did not think we ought to complain much, and that we should go on as we were at present. He promised that he would hey the matter before Mr. Fortescue, but we did not think we ought to complain and, and that we should go on as we were at present. He promised that he would hey the mat

we should go on as we were at present. He promised that he would lay the matter before Mr. Fortescue, but we did not gather from what he said that we could hope for any reduction.

Capt. JAMES: I consider that we have great reason to complain, and my own opinion is that we ought not to be subject to dues at all except upon profits, but paying 1004. an acre for all land that is destroyed. I do not think the time is far distant when that aystem will have to be carried out in the county of Cornwall. In this particular case the dues ought certainly to be reduced to the same amount as Mr. Basset's.—The PURSER: Unless things improve it is clear that some alteration will have to be made. We cannot go on like this. We told Mr. Pease on Monday that this had become a very costly mine, but although he promised to represent these facts to Mr. Fortescue, I do not think we can expect very much from that. He mentioned the cases of other mines, and amongst them Wheal Grenville, where, he said, they were paying 1-24th, and did not make any complaint.—Capt. JAMES: Perhaps not, but they will have to complain before long. They are paying heavy calls to support the mine, and the question is how long they can continue to do so.—Mr. J. Hocking, jun.: The lords will find out their mistake when it is con late.—Capt. JaMes: The fact is that when the collapse does come it will come with violence.

Mr. Hocking: I must, say it is very hard that we should have to pay for land,

too late.—Capt. JAMES: The fact is that when the collapse does come it will come with violence.

Mr. HOCKING: I must say it is very hard that we should have to pay for land, dues, water, and everything else from beginning to end.—Capt. JAMES: We are paying nearly 100. a year for the stream of water: East Pool pays for it, and Cook's Kitchen pays for it, and I suppose it does net return to the lord much less than 800. a year in addition to the dues. If the mines were rich and we were making dividends we should regard these matters as comparatively trifling, but as we are not in that position I do think the subject is one worthy of serious consideration, especially seeing that we have to pay for this water course.

The PURSER: We have also to pay a large sum for the ground we have taken for the new stamps. That will cost us 100. per aerefor the grass land, and 50. for the eroft ground.—The accounts were then passed, and the balance carried forward to the debit of the next account.

Mr. A. RICHARDS asked what freight they were paying for their coals?—The CHARDS was held to be about 5s. 6d. The carriage was 3s. 7½d., including quay dues, and the price of the coals 8s. 6d. Det con, with 2½ per cent. off for each: making 17s. 10½d. per ton.—Mr. RICHARDS said the Potreath Company would sell coals, delivered to the mine, of equal quality for 17s. per ton.—The PURSER replied that they had no reason whatever to complain of the quality of the coals the sell coals, delivered to the mine, of equal quality for 17s. per ton.—The PURSER replied that they had no reason whatever to complain of the quality of the coals the sell coals, delivered to the mine, of equal quality for 17s. per ton.—The PURSER replied that they had no reason whatever to complain of the quality of the coals the sell coals. The content of the coals are also and the sell of the coals that they had no reason whatever to complain of the quality of the coals the offer was not accepted, and the meeting flost her sell and the meeting of the coals and the meeting

Daily Mercury.

WEST POLDICE.—At a meeting of adventurers held at the mine on July 18 (Sir F. M. Williams, Bart., M. P., in the chair), the accounts showed a profit on the five months working of 491t. A dividend of 5s. per share was declared, carrying forward a balance of 59t. The costs altogether for the 20 weeks amounted to 3409t, including labour cost 2183t, merchants' bills to the end of April 921t. Perran Foundry Company, for 20 in. cylinder and boiler, 250t., and bank charges for eight months 35t.—About 4t. per month. The copper is credited at 945t., and the tinstone at 3015t. The dues altogether were 150t., for which the lords of 8t. D. y take 109t., and Sir F. M. Williams's proportion amounts to 41t. for the tin, on which 1-20th is paid: on copper the dues are 1-24th. Cupts. James Brown and George Johns are in future to have six guiness a month, instead of 8t. 5s. as heretofore, and thanks were given to Sir F. M. Williams for selecting them. They have 28 pitches working on tribute by 70 men, varying in price from 3s. 6d. to 12s. in 1t. The agents conclude a very satisfactory report by stating that their prospects are very promising for opening up a good mine.

'For remainder of Meetings seeto-day's Journal.]

'For remainder of Meetings see to-day's Journal.

FOREIGN MINES.

FOREIGN MINES.

ST. JOHN DEL REY.—Telegram from Morro Velho, dated Bahia, July 27: Produce 11 days (first division of July), 12,750 cits.—4940/.; yield 7·1 (?) cits. per on. Profit for the month of June, 7000/.

RICHMOND CONSOLIDATED.—Telegram: Week's run, 863,000.

R. Rickard, July 7: The shaft is down deep enough for a well below the 900; the shaftmen will now be occupied in timbering the shaft, and as soon as it is inished will begin cutting the 900 station. The 800 drift is about the same as last reported. The winze sinking below the 706 is down 40 ft., sunk in ore all the distance; bottom still in ore. No. 1 stope, in back of the 600, has very much impacted since last week; it is extending to the south-east—also widening. The winze is still being sunk in ore; it is down 60 ft. The Lizette tunnel extension is in the same kind of ground. All other parts of the mine are without alteration since last reported on. The furnaces are working well, and smelting an average quantity of ore.

NEW PACLIFIC.—Telegram from superintendent: Rich strike south cross-cut.

well, and smelling an average quantity of ore.

NEW PACIFIC.—Telegram from superintendent: Rich strike south cross-cut.

TOLIMA.—The estimated whee of the returns for the month of May last amounts to \$8520, obtained at a cost of \$8715; showing a gross profit of \$1805—300f. odd.

EBERHARDT AND AURORA.—The directors have received 27 bars of silver,

alue about 60007. SWEETLAND CREEK.--G. D. McLean, July 1: Washed in new tunnel. All other

SWEETLAND CREEK.—G.D. McLean, July1: Washedin new tunnel. All other work progressing as on every day during the week. Papers of last run forwarded to use set that they show aloss of \$900 and odd, but could not avoid it; the only explanation is poor ground. I hope we will do better in this run, but look not expect runch improvement. Should we doe better than you have been led to expect, I shall be as agreeably disappointed as yourself.

CEDAR CREEK (Gold) —J. B. Ludium, July 6: I last had this pleasure on June 29, since when I can report as follows:—The Pacific claim is refittered and ready for water again: I am not yet in receipt of the certificate showing the product of last run. The Central claim continues washing, and is removing the gravel very fast considering its heavy character. The Yaukee Batger we cleaned up on Monday hast, as we were obliged to run almost entirely on the fine front gravel, which was too poor for our predecessors to drift out. I did not expect large the receipt of the extinces. The Calum washing above has been obliged to be off so frequently that much time has been lost sheing driven as fast as possible under existing circumstances. The claim washing above has been obliged to be off so frequently that much time has been lost firm of the winding into the claim, placed the hosting works in position, laid the water-pipe, &c., and sunk 16 ft. in the hard cemented gravel: the whole costing \$460 30. This we will soon pass through the stratum.

LX L. (60id and 8ilver).—L. Chalmers, July 3: Your telegram received. I have been in treaty for another mill, but it will not suit, I go to San Francisco to lowing morning.

morrow to ascertain the cost of a mill, which I shall report. I have at last heard of a foreman, and go to Grass Valley to see him. Wire rope just arrived. I am burning a kiln of brick for the furnace and boiler for the mill.

of a foreman, and go to Grass Valley to see him. Wire rope just arrived. I am burning a kiln of brick for the furnace and boiler for the mill.

EXCHEQUER (Gold and Silver)—Lewis Chalmers, July 3: I have the honour to report, for the information of the board, that the engine-shaft is down 394 feet. The north drift, in the 300, is in 140 ft.; the lode is the full size of the drift, but not very good. The north drift in the 200 is in 472 ft.; the lode is 6 ft. wide, and a heavy stream of water coming from the face. The stope in the 200 ft. level is 35 ft. long and 25 ft. high. Some fine ore, and the lode looking stronger than at any time since we commenced to work on it. After long time wasted in fruitless correspondence endeavouring to get stopers, I am off to-morrow to Grass Valley, and shall visit the surveyor-general at San Francisco, and the receiver at Sacramento, to push on patents before I return. I grudge this trip very much, as I am wanted here very much at present. The mill-ngine was hauled to the mine yesterday. The brick for the furnace will be all hauled to-morrow.

Extract from a letter received from Mr. J. J. Cooper, M.E., of the Goldstream Mine, Colorado, July 3: I went underground in the Exchequer, and was pleased to find it looking much better than when I inspected it in the summer. The lode in the 300 ft. drift is more settled and better defined than it was above, and they had a rich bunch of ore, which must be a new one, as they had none like it so near the shaft above. The 300 drift is not yet under the rich shoot in the 200; it will probably take another month to get under it. From this latter in the stope I broke a lump of the ore about 7 b, in weight, and had a piece of it assayed by the territorial anasyer here. It ran 1914 year, in silver and \$31 in gold per ton of 2000 lbs. This included quartz. Had I just picked out theore it would have run much higher. The ore reserves in the mine have increased considerably since I was there last. I am still of opinion that the deeper you go down the

ginia City to see the Comstock lode, for my own amusement. I showed the specimen of Ophir ore." He did not know. I told him it was not Ophir, and he said it was exactly like it.

FRONTINO AND BOLLVIA (Gold).—June 3: The May profit will be \$7000, or nearly 12001., from which will have to be deducted the general expenses in Medellin and London, amounting to about 1591.: leaving a net profit of 10414 for the month. Mr. White states that the mines are in a very satisfactory condition.

LA MANCHE.—J. Nancarrow, July 3: We cleared the mine of water on the 19th ult., since that time we have had all the miners we could get working underground in the 20, on a course of lead I value worth from 2 to 2½ tons per fathom. This is in the centre of the mine, in as fine and well defined a lode as can be seen for a soon as an opportunity offers. I look on this as a good discovery for the future of the mine, the lode not being productive or near as wide in the 10 fm. level or level above. We have stulls put in in readiness for stoping in the 20 fm. level, both at Cooper's and McConochie's shafts, in good courses of lead ore, and shall begin to stope as soon as I can get miners, but they are very scarce at present, being now in the middle of the fishing season. Meantime I am picking all up as they come along, and I will leave no stone unturned to work the mine with the utmost energy possible, which must turn out a prize ultimately. I can assure you I have every confidence in the mine if fairly developed. We are bay dressing up the lead which acomunulated last winter, and shall go ahead as fast as possible with this and other necessary work; we have plenty of water to work all our machinery, which is in good condition now, and we only require to work one of our steam-engines by day to draw the lead from underground. My report shall be sent on regularly now every month from this. I congratulate you on the prospects of the mine.

MALABAR.—G. B. O'Reilly, June 19: The Mine: Weare pushing on the work so as to resume washing as speedily

20 ft. of extra fall will be gained. The whole of the above work I expect to have finished by the 25th inst., and then I consider that the mine will be in a position to run with ut delay from breakages, the only break point remaining being the Pavas fiume.

TOLIMA.—The directors have received advices by the mail of July 26, of which the following is an abstract:—Frias: May returns, \$8520-1; expenses, \$7602-1%, less improvements, \$856-6-8615-3% = \$8104-5%, equal in sterling to 3004. ISs. 94. The month's reports give 28 fms. 2 ft. 1 in. of ground expended, of which 12 fms. 2 ft. 1 in. were unproductive, leaving 16 fms. of productive ground. The underground agent states as follows:—Engine-Shaft: This station is now 5 fms. below the 30, and the lode has improved considerably since last month. The branch of ore on the eastern side of this shaft is 6 in. wide, composed principally of galena and blende, and worth over 300 cos. fine silver to the ton of ore; this is the same course of ore as we had above, which gave large quantities of mineral of good class. Should this continue in depth I believe we shall have a rich bunch of ore, and the expected results will be realised.

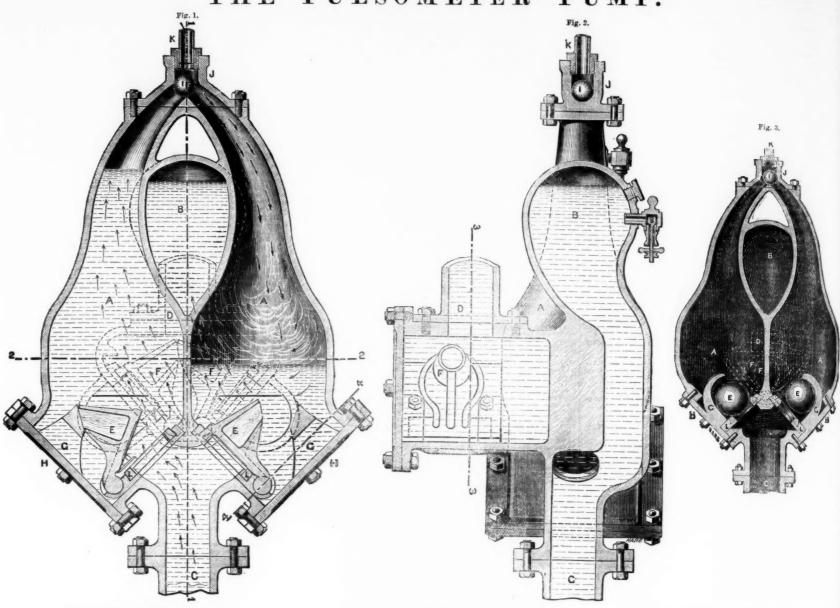
The 30 fm. Stope East: The stope east from this shaft is yielding rich ore. It is 15 ft. in length, and 3 fms. from the bottom of said shaft: this, of course, cannot be worked until the ground has been opened in the 40 fm. level.—The 36 fm. East End: We are driving this end in poor ground. A small string of quarts and carbonate of lime is at present the constituent of the lode, but as time always accompanies rich ore I expect we are not very far from mineral ground, especially as the lode at the 20, about the same distance, has very good ore. The end has advanced 6 fms. 2 ft. from the fault that apparently impoverished the lode.

The ground in the 30 west end seems more premising than last month, is easier for driving, and lets out a brave stream of water; however, as we have met with very little mineral above, on the 2 fm. level, we cannot safely

[For remainder of Foreign Mines, see to-day's Journal.]

Three Hundred Men Imprisoned in a Coal Mine.—Great exitement has been caused in the colliery districts of Pendlebury and Clifton, about four miles from Manchester, owing to an extraordinary accident which happened at the Clifton Hall Colliery, owned by Messrs. A. Knowles and Co. (Limited): 420 men and boys are employed in the underground works of the pit, which is one of the deepest in the district. The cause of the accident was the collision of two cages meeting midway down the shaft, thus cutting off all communication with the head workings, and 330 men and boys were in consequence imprisoned for nearly 40 hours. It appears that the men and boys went down the mine on the day-shift on Friday, and continued working until the afternoon. At that time, by a mistake of an engineman, who began winding up without obtaining the proper signal from below, a cage, which was improperly loaded, was dragged up the pit, and one of the wagons, which was only partially placed upon it, ripped up the area of the pit and broke the wooden guide rods. The coal began falling out of the wagons, and the men at the bottom were unable in consequence of this to reach the signalling rod before it was snapped by the accident which immediately happened. The ascending cage proceeded, ripping the uprights until when in the centre of the aft it met the empty cage refurning down. A collision ensued, the result of which was that they became entangled, and the rope from the engine snapped with the internal contents. was the first indication on the bank that an accident had occurred, and great alarm was occasioned. Instructed by Mr. Barker, the manager, two men descended the shaft by a temporary apparatus, which was as speedily as possible fitted up, and Mr. Barker himself, subsequently, at great personal risk, ventured down the pit to see if any lives had been lost. He soon satisfied himself that the cages had only contained coals. Men were set to work to clear the shaft, and eventually one of the cages fell into the dip hole at the bottom of the pit. It was not until nine o'clock, however, on Saturday morning that communication with the men below could be opened. The scene in the workings duving the long nights' waiting was very exciting. The men were kept in very fair order by two experienced underlookers who happened to be below at the time of the accident. They were quite unaware of the nature of the block in the shift, or of the means which were being taken for their resone. But assurance of safety was maintained by the fact that ventilation of the pit continued perfect. As many of the men were slenderly provided with food, they became ravenously hungry, and when, in the course of Saturday, supplies of bread and clie-see were sent down into the mine a scene of a most exciting description took place. The food was served out to the men from the cabin window, but in their excitement and impatience the men broke into the cabin and heled themselves. On Friday evening and Saturday the wives and friends of the imprisoned colliers assembled on the pit-head, and in most instances brought provisions, besides which several loads were sent down by the proprietors of the pit. When communication was first made with below several persons were raised by the temporary apparatus, but this had to be given up, as it was very dangerous. Every assurance was given to the friends of the men below that nothing likely to risk life had occurred and, happily, shortly before midnight on Saturday, the shut was completely cleared, and the men, in t

PULSOMETER THE PUMP.



THE PULSOMETER PUMP.

Inaccordance with the promise given last year we are now enabled to publish sectional drawings, &c., of the Pulsometer Pump.

The principle of raising liquids by the direct action of steam upon their surfaces out of chambers into which it is lifted by atmospheric pressure, such as takes place in the Pulsometer, carries us back to the first really useful engine that was made; for in Capt. Savery's engine we already find the operation of steam to be two-fold—in exerting direct pressure from its elasticity, and in the direct consequence of its condensation, so affording a vacuum. It is beyond our present purport to follow up the history filling up the interval of 170 years, which elapsed between Savery and Hall, the inventors of the present Pulsometer, for it is more or less known that almost every successive improvement was directed to the raising of water every successive improvement was directed to the raising of water

every successive improvement was directed to the raising of water and other liquids by the action of steam upon a piston, and that the idea of utilising the direct pressure of the steam or the liquid to be raised was practically abandoned till within a very few years.

Therefore, proceeding to the descriptive portion of the Pulsometer as we now find it improved, it consists mainly of a single casting or body, which is composed of two chambers, AA (see Figs. 1 and 3), joined side by side, with tapering necks bent towards each other. It is surmounted by another casting, called the neck (J), accurately fitted and bolted to it, in which the two passages terminate in a common steam chamber, wherein the ball-valve (I

each other. It is surmounted by another easting, called the neck.

(J), accurately fitted and bolted to it, in which the two passageterminate in a common steam chamber, wherein the ball-valve (I
is fitted so as to be capable of moving about between seats formed
in the junction. Downwards the chambers (A A) are connected with
the induction passage (C), wherein the inlet valves (E E) are arranged. These inter-valves are constructed in different patterns
thus, the metal flap-valve, with turned surface, beating on a hard
wooden shoe is shown in Fig. 1, with guards (G G), which contrithe amount of opening of these valves (E E), whist another favourit
form of inlet valve is represented in Fig. 3. In the latter it will
be seen balls are used instead of flaps, and it is claimed that n
better joint could be desired than is so formed by a spherical meta
valve rolling into a wooden or metal seating. In addition to these
patterns the hollow Perreaux valve is also recommended for the
same purpose by the makers.

A discharge chamber, common to both chambers, and leading to
the discharge-pipe (D) is provided, and this also contains one or two
valves (F F) according to the purpose to be fulfilled by the pumpThe same principle which has been adopted in the pump-valveproper has also been introduced in the foot and back pressuravalves. The large side opening, with faced flunge, to which the
cover is bolted, gives ready access to the valve in the event of any
foreign substance becoming lodged there. The air clamber (B) in
made in the same casting as the chambers, and communicates with
the suction. Sometimes it is divided by a diaphragm, and one pertion communicates with the suction, and the other with the delivery. The induction and discharge chambers are closed by coverfrom formunicates with the suction, and the other with the delivery. The induction and offer the following remarks on the working action
of the Pulsometer which have been supplied to us by the Pulsometer
Company of London:—The pump being filled

able circumstances, very nearly continuous. The forementioned in

cocks are introduced to prevent the too rapid filling of the chambers on low lifts and for other purposes, and it is asserted that a very little practice will enable any unskilled workman or boysome set them by the milled nut that the best effects may be produced. Many situations will unquestionably suggest themselves as suitable for the employment of a steam-pump possessing the strategies that the Pulsometer does; but we must confine ourselveshed to its adaptability in maning operations. able for the employment of a steam-pump possessing the strages that the Pulsometer does; but we must confine ourselves her to its adaptability in mining operations; accordingly the ansend Fig. 4 represents the Pulsometer litted up in a mine. The smal space it occupies, coupled with its dispensing with costly foundations of any kind, since all that is absolutely needful in such assist to provide a boiler aboveground, and to put a derrick above the shaft, with a chain and a pair of blocks, which facts justify the portability claimed for the Pulsometer; or, again, the perfect ease with which it will pump water full of sand, grit, and chips without choking up; or the entire absence of these sources of maintenancy by not requiring any oil, tallow, or packing. All these advantages we believe cannot fail to attract attention in all kinds of subtrance on the strage of the same advantages are midenated by a large expenditure of steam when compuse with the donkey pumps of the newest principle, as proved, for stance, on a steamer where the Pulsometer pumped the ballow water out in 3½ hours, while the donkey pump, with the same is of steam-pump, took 8 hours, we are inclined to believe that the Pulsometer will not be long before making itself a general farounity in our mining operations. We have not yet had the opportunity ascertaining the relative comparison existing in the Pulsometr type between steam expended and work done; but it should be lead to the arrangements for preventing the steam from being larger condensed by contact with the water or other liquid which is to pumped during the emptying of the chamber. To this effective peculiar form of the chambers greatly contributes; but it is is believed that the admission of air (through the air-cocks), which afterwards somewhat condensed by the rising of the water, tends prevent the ultimate contact of the steam and water. afterwards somewhat condensed by the rising of the water, tending prevent the ultimate contact of the steam and water.

RAILWAY STATISTICS OF THE UNITED STATES.—The CUTTE year's edition of Poor's well-known "Manual of the Railroads of the United States"—that for 1876-77—has just been is sued (Lorder H. V. and H. W. Poor, Gracechurch-street), and affords really all the information upon the subject which need be desired. The press volume is, moreover, rendered more than usually interesting own to a general review of the subject of the book being given by we of introduction. The first locomotive ever used in the listates was one imported from England in 1829, constructed Foster, Rastrick, and Co., of Stourbridge, and called the "Sorbridge Lion." The engine was imported for use on the Carbodia and Honesdale Railroad, belonging to the Delaware and Holsa Canal Company, and extending from their canal towards themiss. The first locomotive built in the United States and the seconda ase there was made in the West Point Foundry Works, New Yok, in 1830. It was called "The Best Friend of Charleston," haifs been built for the South Carolina Railroad, then in course of characteristics. The first railway was opened in Great Britain on Set. with this general description of the construction of the pump we may proceed to offer the following remarks on the working action of the Pulsometer, which have been supplied tous by the Pulsometer Company of London:—The pump being filled with water, either by pouring water through the opening in the chamber, or by drawing the charge, is ready for work. Steam being next admitted through the steam-pipe (K), by opening to a small extent the stop-valve, passes down that side of the steam neck, which is left open to it by the position of the steam beil, and presses upon the small surface of water in the chamber which is exposed to it, depressing it without any agitation, and, consequently, with but very slight condensation, so driving it through the discharge opening and valve into the rising main. The moment that the level of the water is as low as the orifice which leads to the discharge the steam blows through with a certain amount of violence, and, being brought into intimate contact with the water, condensation takes place, and a vacuum is, in consequence, so rapidly formed in the just-emptied chamber that the steam ball is pulled over into the seat opposite to that which it the discharge opening, and the steam is, under favour-of railway construction and development.

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FOREIGN MINING AND METALLURGY.

There has been scarcely any variation in prices in the French coal rade. The competition of English coal with French and Belgian

There has been scarcely any variance in prices in the French coal trade. The competition of English coal with French and Belgian coal is considered to be increasing in France, and it is thought that when the Seine has been rendered more navigable, so that transport facilities are increased, Belgian coal will maintain its position with increasing difficulty upon some of the French markets. The colliery proprietors of the Ruhr basin are also making more and more efforts to obtain a firmer footing in the French coal consuming centres, and this, again, must be regarded as an adverse circumstance by Belgian colliery proprietors who must bestir themselves unless they are content to lose what has hitherto been one of the most profitable foreign outlets for their products.

Reviewing the condition of the continental iron trade, the "Neve Freie Presse" remarks that affairs have become still worse during the past few weeks, as the contracts for railway materials, which have for a long time past been expected, are still held back; and the demand for iron has, therefore, been restricted to only the most pressing requirements. In the Austrian works the business is of a very insignificant character, and many establishments are being carried on at an actual loss, while stocks are accumulating. The Swedish iron trade is also very quiet. In Belgium there have been symptoms of revival, but the hope is still deferred. In Germany prices for a long time past have only barely covered the cost of material and wages, while heavy stocks tend to depress them still further.

The condition of the Belgian iron trade does not improve; if any

is iron trade is also very quiet. In Belgium there have been symptoms of revival, but the hope is still deferred. In Germany prices for a long time past have only barely covered the cost of material and wages, while heavy stocks tend to depress them still further.

The condition of the Belgian iron trade does not improve; if any change has taken place it is, indeed, rather of an adverse character than other hot less considerable undertaking changed by workmen; another not less considerable undertaking changed by the time being to be in excess of the demand, although appears have receded to a point at which they leave little or no profit, a proof of the general want of work is found in the rapidity with a proof the general good show bean increased at the rapidity with young company. The rates charged for the conveyance of rails over the lines of Alsace and Lorraine have been advanced 12 per cent; the rates for general goods have been increased at the same time 2) per cent. The Creusot Works have just constructed some locomotives upon the Mallet system for a line of local interest from Bayons to Biarritz. M. Mallet has slightly modified and introduced the compound system, hitherto confined to marine engines only. The results obtained with the engines just made at Creusot are stated to have been satisfactory, the engines having worked regalarly, while the production of steam was steady and constant. A contract has just been left for the ironworks of two vinducts about to be eracted at Schaerbeck. The Haine Saint-Pierre Forges, Ironworks, and Foundries Company tendered at 25542, this was the lowest tender submitted, and it was 28 per cent, below the highest tender, which was that of MM. Nicaise and Delcue, of L

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portage

Exports of Coal.—By the Monthly Circular of Messrs. Higginson, of Liverpool, we learn the quantity of coal exported in June was 1,300,673 tons, against 1,311,046 tons in the corresponding month of 1875, showing an increase of 49,627 tons. The particulars are—From the Northern Ports, 650,095 tons; Yorkshire, 68,696 tons; London, 8532 tons; Liverpool, 72,032 tons; Severn Ports, 425,133 tons; and Scotch Ports, 136,185 tons. The increase was—Northern Ports, 910 tons; London, 4277 tons; Liverpool, 12,433 tons; Severn Ports, 63,157 tons. The decrease—Yorkshire, 8911 tons; Scotch Ports, 22,239 tons. Total, Jan. to June, 1876, 6,765,022 tons; Jan. to June, 1875, 5,794,280 tons: increase, 870,742 tons.

IMPROVED SAFETY-LAMP.—The merits claimed for the new safety-

June, 1875, 5,794,280 tons: increase, 870,742 tons.

IMPROVED SAFETY-LAMP.—The merits claimed for the new safety-lamp invented by Mr. Alexander Goebel (formerly manager of the Grande Machine á Feu Collieries at Dour), and exhibited by him at the Exhibition of Hygiene, now open at Brussels, as compared with the Mueseler, are that it is not extinguished by rapid movement in the air or in a dusty place, that the gauze is less easily choked, and that it is not put out by being accidentally turned on one side. It is remarked that the extreme sensibility of the Mueseler adds nothing to its safety, since it is due to causes with which the firedamp has nothing to do; whilst his lamp is safer, diffuses a good light in all directions, and has the great advantage of indicating the Presence of fire-damp by the elongation of the flame in the same way as the Davy. way as the Davy.

HOLLOWAY'S OINTMENT.—Bad legs, wounds, and all descriptions of sores are immediately cured by the power and diligent use of these inestimable preparations. To attempt to cure bad legs by plastering the edges of the wound together is a foliy; for, should the skin unite, a baggy diseased condition remains underseath, to break out with tenfold fury in a few days. The only rational and perfect Presiment is to reduce the inflammation in and about the wound, to soothe the orender the thin, watery, ichorous discharge consistent and healthy. Happily for antiering humanity, Holloway's ointment, assisted by judicious doses of his plils, accomplishes these ends with unfalling certainty.

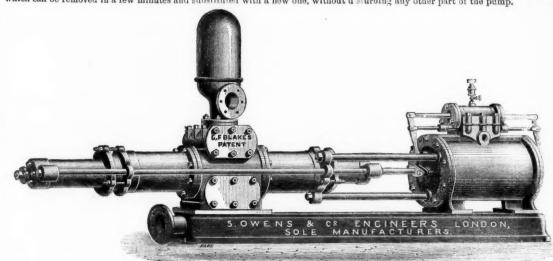
BLAKE'S PATENT STEAM PUMP.

MORE THAN 8000 IN USE.

OWENS &

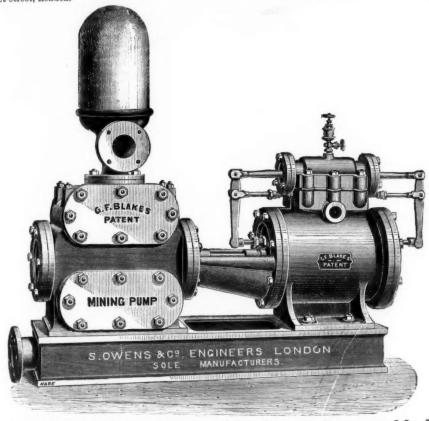
Hydraulic and General Engineers, Whitefriars-street, London; And at 195, Buchanan-street, Glasgow (W. HUME, AGENT).

These PUMPS from their SIMPLICITY, RELIABILITY, DURABILITY, and ECONOMY are SPECIALLY SUITED FOR MINING PURPOSES, where better quantities of water require to be raised from great or medium depths with CERTAINTY. They are double-action in their construction, throwing a constant stream of water, can be made of any stroke to suit the space in which they have to work, can be arranged with any combination of steam and water cylinders to suit the pressure and lift against which it is desired to work them, are made of the very best materials and highest class of workmanship, and all working parts can be readily got at by any ordinary workman, and replaced if necessary by a duplicate part (all such being interchangeable) in the shortest possible time. For situations where gritty and sandy water has to be pumped the DO BLE-PLUNGER PATTERN is recommended. Where space is limited the PISTON PUMP is better suited, a novel feature of which is the PATENT REMOVEABLE LINING, which can be removed in a few minutes and substituted with a new one, without disturbing any other part of the pump. These PUMPS from their SIMPLICITY, RELIABILITY, DURABILITY, and ECONOMY are SPECIALLY SUITED FOR MINING



Blake's Improved Double-plunger Steam Pump. S. OWENS AND CO.,

In placing the BLAKE STEAM PUMP before the mining world, believe they are offering the BEST, MOST RELIABLE, and ECONOMICAL PUMP that has yet been made, and solicit an inspection of various sizes in operation at their works, White-friers-street, Fleet-street, London.



Blake's Improved Mining Pump, with Patent Removeable Lining to Pump Cylinder,

Any combination of these Pumps may be had to suit circumstances. The following are some of the SIZES SUITABLE FOR MINING

- 1	I URI OBES .																				-	
3	_											4.0	20		10	10	00	00	00 1	90 1	24	94
	Dia. of steam cylinders In.	12	12	12	12	14	14	14	16	16	16	16	18	18	18	18	20	20	20	0	0.	21
1	Dia. of water cylinders In.	3	4	5	15	4	- 5	- 6	4	5	- 6	8	4	0	6	80	6	00	00	20	36	49
1	Length of stroke In.	18	18	18	24	24	24	24	24	24	24	24	24	30	30	30		30		17	17	
1	No. of strokes per minute	30	30	30	30	25	25	25	223	22	22	22							17			
	Quantity in gallons per	1.1.10	2010	1-200	5010	9010	16:20	6600	2646	4158	5940	10620	2646	5160	7500	13260	4586	9000	12360	15660	6720	20
	Dhour annroymately	1330	MUAU	1-00	676, 777	-0780	10-0	CIGNIC	met / Att	2200	0020											

PRICES FOR THE ABOVE, OR ANY SPECIAL SIZE, AND ILLUSTRATED CATALOGUES FURNISHED ON APPLICATION.

PATENT CONDENSORS

Can be supplied for any size pump to effect a saving of fully 30 per cent. in the consumption of fuel, greatly increasing their efficiency

The Blake Pump will work under water, and as efficiently with compressed air as with steam.

BLAKE'S DONKEY PUMPS FOR FEEDING BOILERS KEPT IN STOCK. 1

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Spec









LONDON EXHIBITION, 1874.

TANGYE BROTHERS AND HOLMAN,

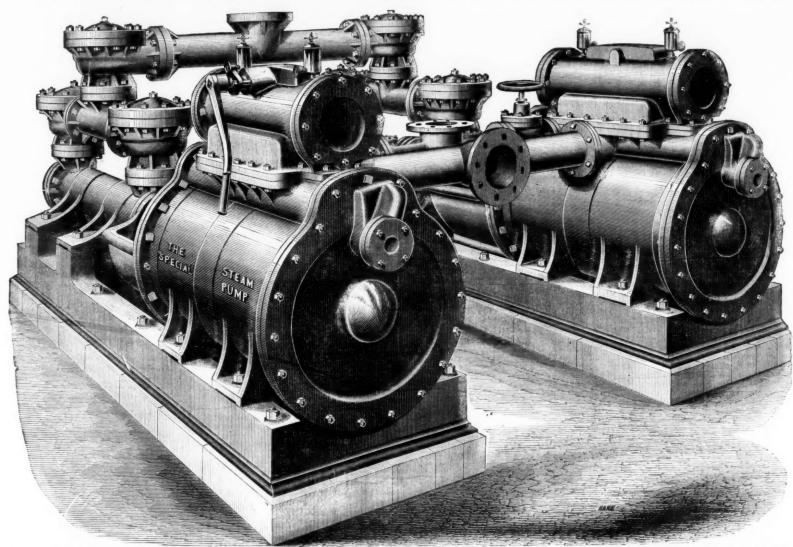
10, LAURENCE POUNTNEY LANE, LONDON, E.C.,

AND BIRMINGHAM, (TANGYE BROTHERS), CORNWALL WORKS, SOHO

THE "SPECIAL" DIRECT-ACTING STEAM PUMP.

OVER 12,000 IN USE.

SUCCESSFULLY ADOPTED IN A LARGE NUMBER OF MINES IN THIS COUNTRY AND ABROAD.



PAIR OF THE "SPECIAL" DIRECT-ACTING STEAM PUMPS SUITABLE FOR HIGH LIFTS IN MINES, SIMILAR TO MANY SUPPLIED BY TANGYE BROTHERS AND HOLMAN.

"The underground pumping engine at Adelaide Colliery is working night and day. It does its work satisfactorily, and gives us very little trouble. Some of the cup leathers which form the plunger packing have worked three months. The working barrel is in beautiful condition. The average duration of the valve seats is about eight months; they work and keep tight as long as there is a bit of them left. I expect the valves (Holman's patent) and the buffers will last as long as the colliery."

Extract from a letter received by Tangye Brothers and Holman from W. H. Eagland, Esq., dated Feb. 27, 1875, in reference to a "Special" Direct-acting Steam Pumping Engine supplied two years ago to the West Yorkshire Iron and Coal Company near Leeds, to throw 16,000 gallons per hour, 465 feet high in one direct lift:—

"It is at work night and day. Our man goes down to the pump twice a day (Ten A.M. and Four P.M.), to supply the tallow cups. After this it is left every day till he comes next morning, when he goes down again at Ten A.M. as before. The only repairs the pump has had for 12 months are one bucket, which had worked since we got the pump, and one valve seat, but no valve, so it has cost very little. Its first lift is 70 yards perpendicular, then the water passes up pipes for half a mile, ascending another 70 yards, and then another perpendicular pipe of 15 yards—total, 55 yards vertical height..."

Extract from the Official Report of the Commission of the German Empire on the Vienna Exhibition of the 1873, treating on Pumping Englnes:—

"Contrary to these older pumping engines exhibited, there is now nearly engines the opinion established that the ("SPECIAL") pumping engines pixels derground, which are made on A. B. Cameron's principle by Messar. Length preferable to all. They do much duty combined with great compactees. In dispense entirely with the troublesome rod arrangement, giving often rise town pages, so that they will be applied shortly to a great extent, and are already like in many localities. There is no doubt that this is in every respect practical spiral will command a general adaptation."

200 SIZES AND COMBINATIONS OF THESE PUMPS ARE NOW MADE.

The following are a few of the Sizes for High Lifts in Mines:

Diameter of Steam Cylinder In. Ditto of Water Cylinder In. Length of stroke In. Sallons per hour approximate Height in feet to which water can be raised with 40 lbs. pressure per sq. in. of steam or compressed air at pump	7 3 24 1830 325	8 3 24 1830 425	9 3 24 1830 540	9 4 24 3250 300	10 3 36 1830 665	10 4 24 3250 375	12 3 36 1830 960	12 4 36 3250 540	12 5 36 5070 345	14 4 36 3250 735	14 5 36 5070 470	14 6 36 7330 330	16 4 36 3250 960	16 5 36. 5070 615	16 6 36 7330 426	16 7 36 9750 312	18 5 48 5070 775	18 6 36 7330 540	18 7 36 9750 400	18 8 36 13,000 300	21 5 48 5070 1058	
		***						CO	NTIN	UED.							,					
Diameter of Steam Cylinder	8 36	21 9 36 16,519 326	21 10 36 20,000 264	24 6 48 7330 960	24 7 48 9750 700	24 8 48 13,000 540	24 9 48 16,519 427	24 10 48 20,000 345	26 7 48 9750 827	26 8 48 13,000 633	26 9 48 16,519 500	26 10 48 20,000 405	26 12 48 30,000 282	30 8 48 13,000 840	30 9 48 16,519 665	30 10 48 20,000 540	30 12 48 30,000 375	30 14 48 40,000 275	32 8 48 13,000	32 9 48 16,519 758	32 10 48 20,000 625	12 48 30,000

PRICES OF THE ABOVE ON APPLICATION.—FOR SIZES AND PRICES OF PUMPS FOR LOWER LIFTS SEE SEPARATE LIST.

HOLMAN'S PATENT CONDENSER will be found a great acquisition to all kinds of Steam Pumps, as not only is the exhaust steam completely condensed, and the annoyance from subblowing off entirely got rid of, but a vacuum is obtained in the steam cylinder saving from 20 to 50 per cent, in fuel, and increasing to a considerable extent the economy and efficiency of the Pump.

9, 1876,

TECHNIC 1 1873.

40,000 313

ATENT IMPROVED ORE WASHING & DRESSING MACHINES.

THE SANDYCROFT FOUNDRY & ENGINE WORKS CO. (LIMITED), NEAR CHESTER

LATE THE MOLD FOUNDRY CO. (ESTABLISHED 1838).

SOLE MAKERS IN GREAT BRITAIN.

HUNDREDS IN USE.

FULL PARTICULARS, PHOTOGRAPHS, TESTIMONIALS, AND PRICES, UPON APPLICATION.

Will supply Designs, and all the necessary Plant for laying out Dressing Floors; also

MANUFACTURERS OF EVERY VARIETY OF

MINING MACHINERY

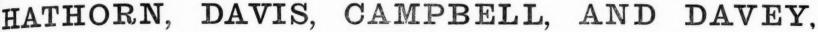
PUMPING & WINDING ENGINES

PITWORK, CRUSHING MILLS,

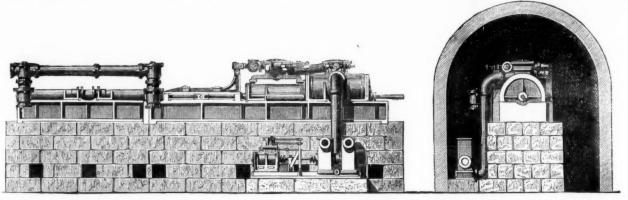
OF PECULIARLY HARD AND TOUGH MIXTURE

COLLOM'S PATENT AUTOMATIC ORE WASHING MACHINE, working at the following and many other Lead, Copper, Blende, and Tin Mines:—Great Laxey, Cape Copper, Pontgibaud, Linares, Alalog, West Tolgus, Lisburne, Minera Halvans, Snailbeach, &c.; and also at Messrs. Vivian and Sons' Black Craig, Old Treburgett, Penhale & Barton, Bog, Linares, Fortuna, Alamillos, Minera Halvans, &c.

LONDON OFFICE: 6, QUEEN STREET PLACE, E.C.



The Differential Pumping Engine, Hydraulic Pumping Engines, Cornish Engines, Differential Blowing Engines, Compound Rotative Engines, the Separate Condenser, Hydraulic Machinery, Mining Plant of all kinds, and Machinery for Water Supply, Irrigation. &c.



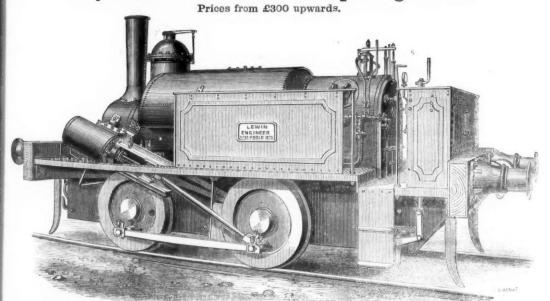
DIFFERENTIAL ENGINE AND FORCE PUMPS, COMPOUND

With Separate Condenser, as applied Underground, forcing 700 gallons per minute 920 feet high.

FOUNDRY, SUN LEEDS.

LEWIN, POOLE, DORSET.

Speciality in cheap colliery and contractors' Locomotives, and yery small Locomotives for replacing Horses.



PORTABLE FIXED AND VERTICAL ENGINES. WINDING AND PUMPING GEAR.

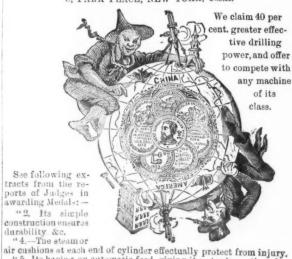
The above represents Lewin's 10 by 18 Direct-Acting Locomotive, taken from a photo of one on a 4 ft. 81 in. gauge.

PATENT

"INGERSOLL ROCK DRILL,"

LE GROS AND CO.,

60, Queen Victoria Street, London, E.C.



"4.—The steamor air cushions at each end of cylinder effectually protect from injury.

5. Its having an automatic feed, giving it a steady motion, &c.

6. Its greater steadiness and absence of jar and vibration experienced in other drills, which is very destructive to their working

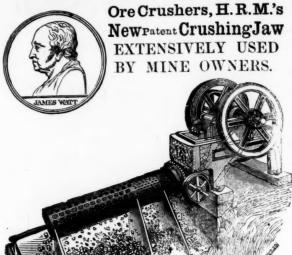
"7. Its greater power is some FORTY PER CENT. in favour of the agersoll."
Medals awarded for several years in succession "For the reason

that we adjudge it so important in its use and complete in its construction as to supplant every article previously used for accomplishing the same purpose."

Issuing the same purpose.

Estimates given for Air Compressors and all kinds of Mining (achinery. Send for Illustrated Catalogues, Price Lists, Testi-Machinery. Send for monials, &c., as above.

BUYERS are CAUTIONED against Purchasing any Infringements of H.R.M.'s Numerous PATENTS.



FIXED MACHINE AND SCREEN, Specially designed and largely used fo

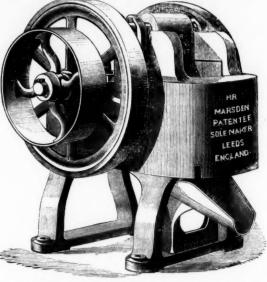
Crushing Pyrites, Limestone, Cement, Coal, Rocks, &c.,

AT ALL THE PRINCIPAL WORKS IN THE KINGDOM Takes in 20 in. by 9 in., and is shown by TESTIMONIALS to be breaking from 1000 to 1200 tons per day of 10 hours, at THREE HALF-PENCE PER TON.

FEW WORKING PARTS. SMALL WEAR AND TEAR. FREEDOM FROM BREAKAGE.

Ore Crushers, H. R.M.'s NewPatent Crushing Jaw H. R. MARSDEN, LEEDS, Mining Improvements

ENGINEER.

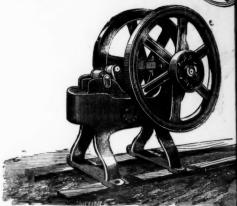


"The Machine is well designed, simple, but substantially made, and is capable of reducing any material to fine gravel, such as copper ore, and is certainly preferable to the stamps in use for that purpose,"—Mining Journal.

SIMPLICITY OF CONSTRUCTION. EXCELLENCE OF SA ECONOMY OF POWER

Revolving Picking Table.

1150 NOW IN USE.



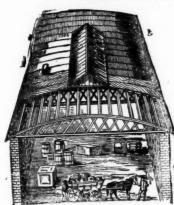
MACHINE FOR HAND OR STEAM POWER.

For making gravel for gentlemen's walks in parks and gards for grinding emery, flints, fossils, &c., for pulverising siver, and other ores; also gold quartz, and especially useful to and metallurgists for sampling, as it is capable of pulven hardest material, and can be turned by one man with

THESE STONE BREAKERS AND ORE CRUSHERS ARE UNIVERSALLY PRONOUNCED THE ONLY PERFECT SUCCESS. For Catalogues, Tetimonials, &c., apply to the

Sole Maker & Patentee, H. R. MARSDEN, SOHO FOUNDRY, LEEDS, ENGLAN

M'TEAR AND CO.'S CIRCULAR FELT ROOFING,



GREAT ECONOMY CLEAR WIDE SPACE.

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CORPORATION STREET, BELFAST.

The above drawing shows the construction of this cheap and handsome reof, now The above drawing shows the construction of this cheap and handsome reof, now much used for covering factories, stores, sheds farm buildings, &c., the principal of which are double bow and string girders of best pine timber, sheeted with ½ inbeards, supported on the girders by purlins running longitudinally, the whole being covered with patent waterproof roofing felt. These roofs so combine light ness with strength that they can be constructed up to 100 ft. span without centre supports, thus not only, affording a clear wide space, but effecting a great saving both in the cost of ror i and uprights.

They can be made with or without top-lights, ventilators, &c. Felt roofs of any tescription executed in accordance with plans. Prices for plain roofs from 30s. to 60s. per square, according to span, size, and situation.

Manufacturers of PATENT FELTED SHEATHING, for covering ships' bot ome under copper or inc.

ms under copper or zinc.

INODOROUS FELT for lining damp walls and under floor cloths.

DRY HAIR FELT, for deadening sound and for covering steam p

DRY HAIR FEIT, for deadening sound and to covering steam pipes, thereby saving 25 per cent. In fuel by preventing the radiation of heat.

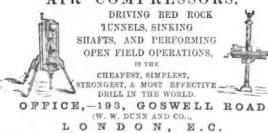
PATENT ASPHAITE ROOFING FEIT, price 1d. per equare foot.

Wholesale buyers and exporters allowed liberal discounts.

PATENT ROOFING VARNISH, in boxes from 3 gallons to any quantity required 8d. per gallon.

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AIR COMPRESSORS,





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Reduced prices of the Kainotomon Rock Drill, Nos. 1 & 2, £32 & £3

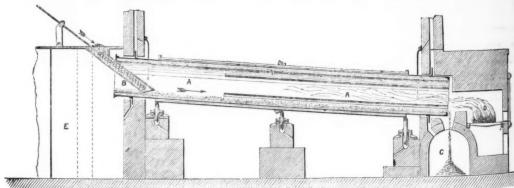
IMPROVED AIR COMPRESSORS.

Makers of Pumping and Winding Engines, Steam Hamme Boilers, Pump Pipes, &c., &c. Castings of all kinds.

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PATENT CALCINER,



For Roasting Ores containing Sulphur, Arsenic, and other Volatile Matters, have been supplied to some of the principal Mines in the United Kingdom and Abroad.

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